

User Manual

MEGA ZERO

Dear customer,

Thank you for choosing **ANYCUBIC** products.

Maybe you are familiar with 3D printing technology or have purchased **ANYCUBIC** printers before, we still highly recommend that you read this manual carefully. The installation techniques and precautions in this manual can help you avoid any unnecessary damage or frustration.

More information please refer to :

1. <http://www.anycubic.com/>

ANYCUBIC website provides software, videos, models, after-sale service, etc.

Please go to our website to report any issues and we are likely to answer or solve all the questions for you!

2. Facebook page and Youtube channel as shown below.



ANYCUBIC website



Facebook page



Youtube channel

Team **ANYCUBIC**

Safety instruction

Always follow the safety instructions during assembly and usage, to avoid any unnecessary damage to the machine or individual injury



Please contact our customer service first if you have any issue after receiving the products.



Be cautious when using the scraper. Never direct the scraper towards your hand.



In case of emergency, please immediately cut off the power of **ANYCUBIC** 3D printer and contact the technical support.



ANYCUBIC 3D printer includes moving parts that can cause injury.



It is recommended to wear protection glasses when printed models to avoid small particles contacting eyes.



Keep the **ANYCUBIC** 3D printer and its accessories out of the reach of children.



Vapors or fumes may be irritating at operating temperature. Always use the **ANYCUBIC** 3D printer in an open and well ventilated area.



ANYCUBIC 3D printer must not be exposed to water or rain.



ANYCUBIC 3D printer is designed to be used within ambient temperature ranging 8°C-40°C, and humidity ranging 20%-50%. Working outside those limits may result in low quality printing.



Do not disassemble **ANYCUBIC** 3D printer, please contact technical support if you have any question.

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Technical Specification

Printing

Technology:	FDM (Fused Deposition Modeling)
Build Size:	220×220×250 (mm ³)
Print accuracy:	0.05-0.3 mm
Positioning Accuracy:	X/Y 0.0125mm, Z 0.002mm
Extruder Quantity:	Single
Nozzle Diameter:	0.4 mm
Print Speed:	20~120mm/s (suggested 60mm/s)
Supported Materials:	PLA, TPU, PETG

Temperature

Ambient Operating Temperature:	8°C - 40°C
Operational Extruder Temperature:	max 255°C

Software

Slicer Software:	Cura
Software Input Formats:	.STL, .OBJ, .AMF
Software Output Formats:	GCode
Connectivity:	Memory card; Data cable(expert users only)

Electrical














Input rating:	110V/220V AC, 50/60Hz
Output rating:	12V6A

Physical Dimensions


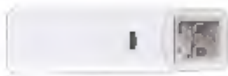









Printer Dimensions:	504mm×396mm×607mm
Net Weight:	~6.4kg











Packing list

			
Base		X module & Control box	
			
Left aluminum beam		Right aluminum beam	
			
Top aluminum beam		Lead screw & Coupler	
			
Extruder	Z motor	Extruder motor	Z limit switch
			
Bottom filament holder	Top filament holder 1	Top filament holder 2	

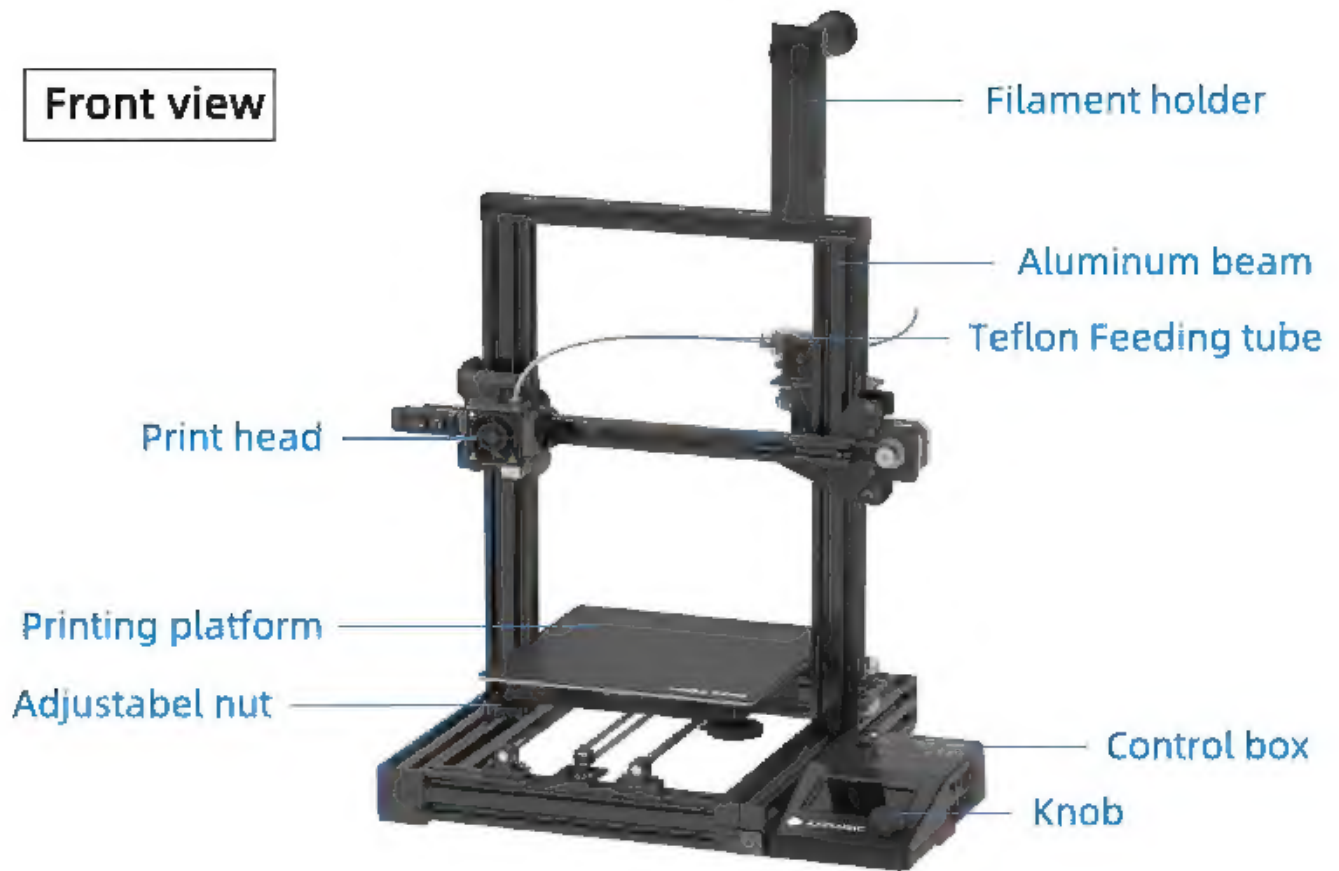
Packing list

			
Memory card	Card reader	Data cable	Assembly instruction
			
Plier	Scraper	Filament (Random color)	After sale service card
			
Power adaptor	Power cord	Tool kit	

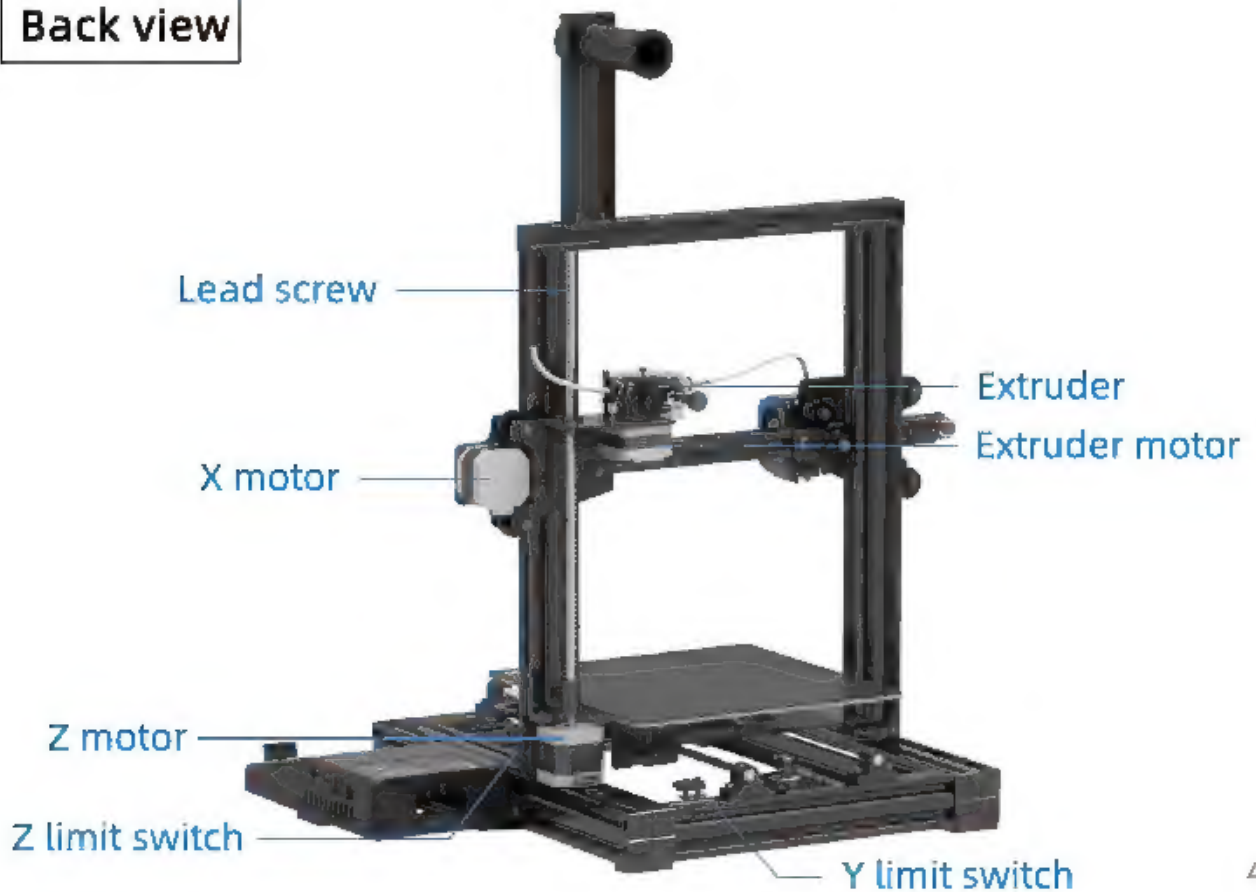
				
M5*45 4PCS	M5*25 4PCS	M5*6 2PCS	T nut	Washer 8PCS
				
M4*25 2PCS	M4*16 4PCS	M3*38 3PCS		

Product Overview

Front view

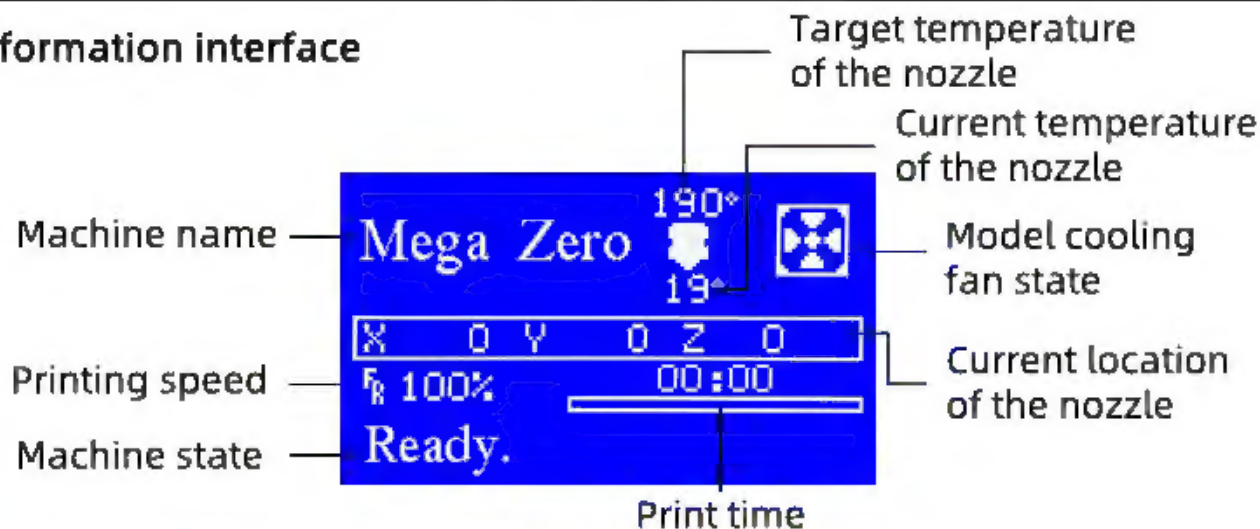


Back view

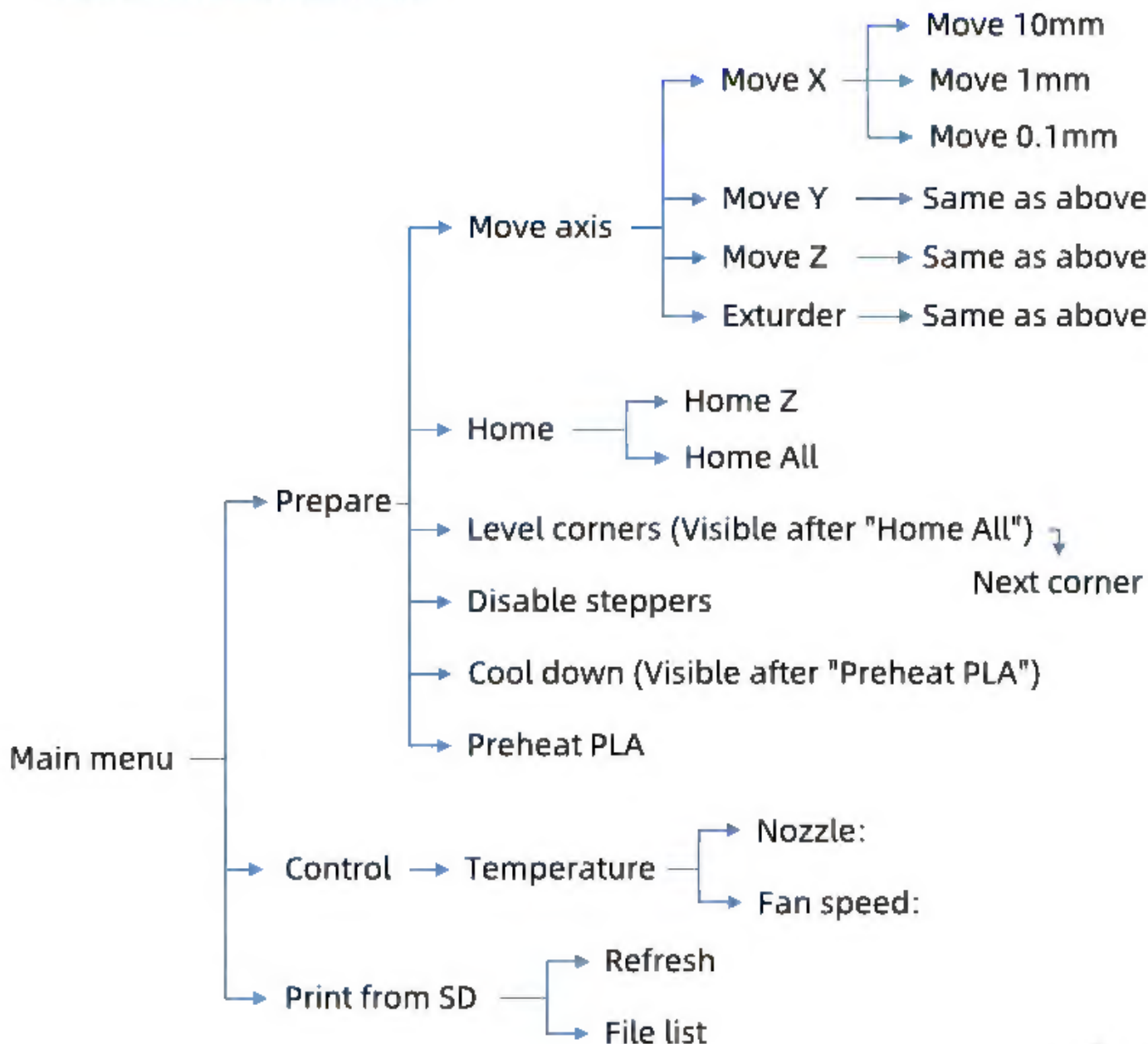


Menu Directory

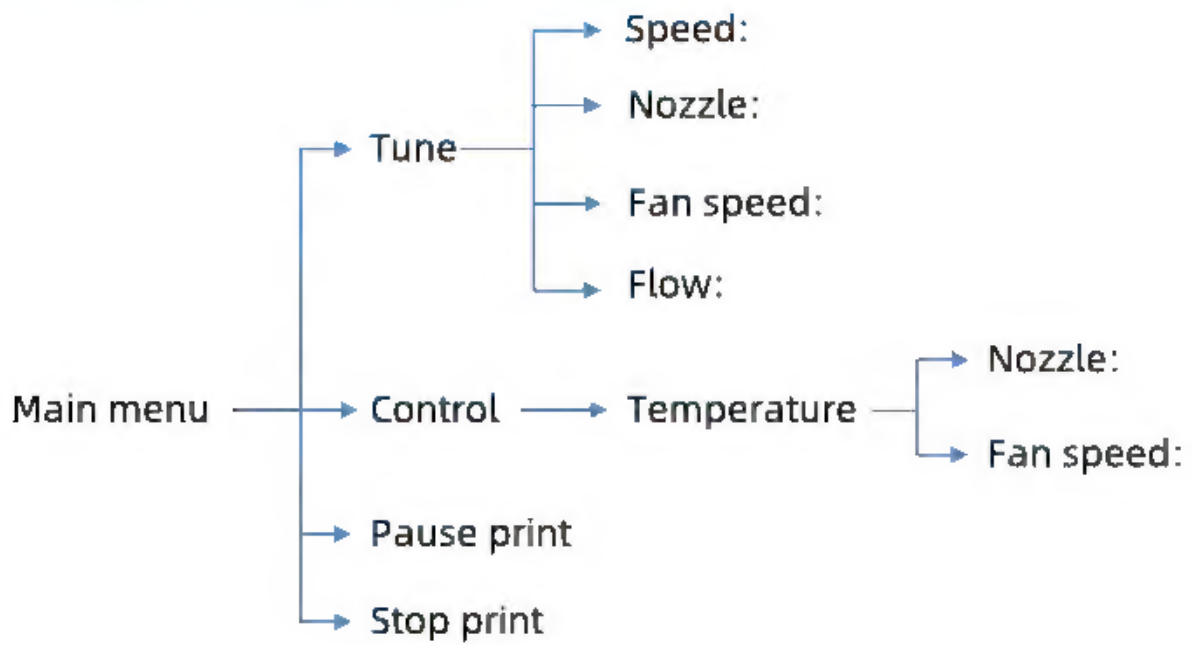
Information interface



Common Functions



Common functions in printing



Installation

1. Installation section contains: ①Install the frame ②Wiring
2. Be cautions during assembly as some parts may have sharp edges.
3. It is suggested to use a flat desktop and place the parts in an orderly manner for quick assembly.
4. The color of some parts may be different from what in the manual, but the assembly is the same.
5. Firmware has been pre-uploaded to the motherboard. After completing the assembly, please level the platform and load the filament then you could start the first test print.

Please note. every units of the printer have been inspected and tested for printing. Therefore, in some cases, there might be very small marks left on the print head or on the heated bed. Those will not affect the printing quality and those means the printer has been tested for the quality. The aluminum beams are slightly scratched or the platform is slightly uneven, which is normal under the condition that it does not affect the normal printing. Thank you very much for your kind understanding.

Installation

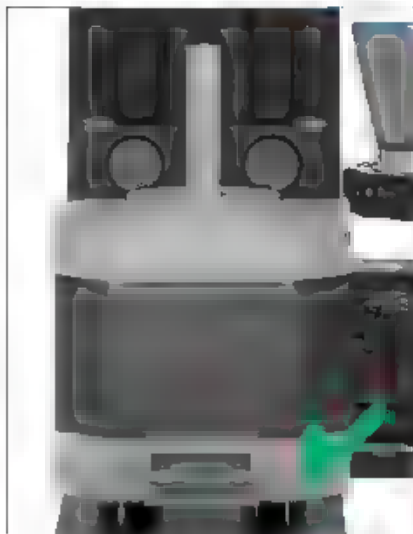
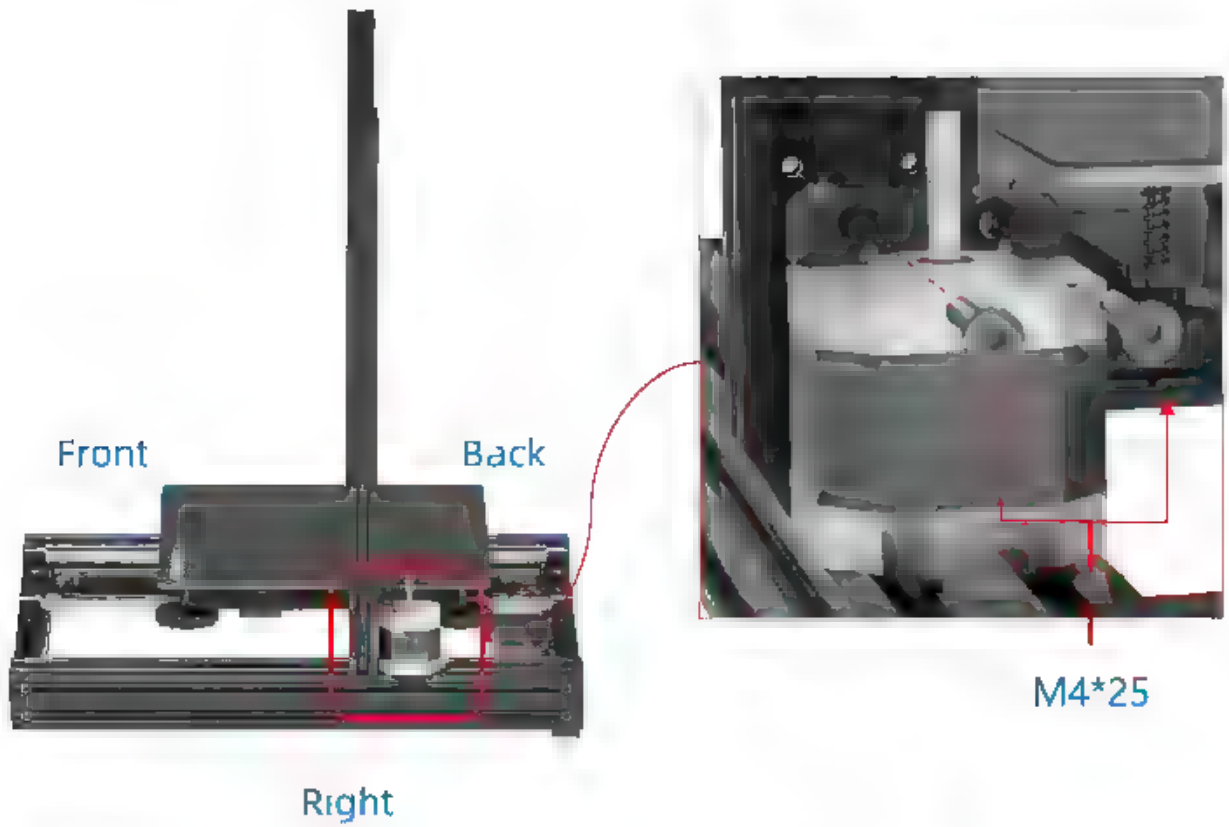
1. Install frame

(1) Install two aluminum beams to the base.



Installation

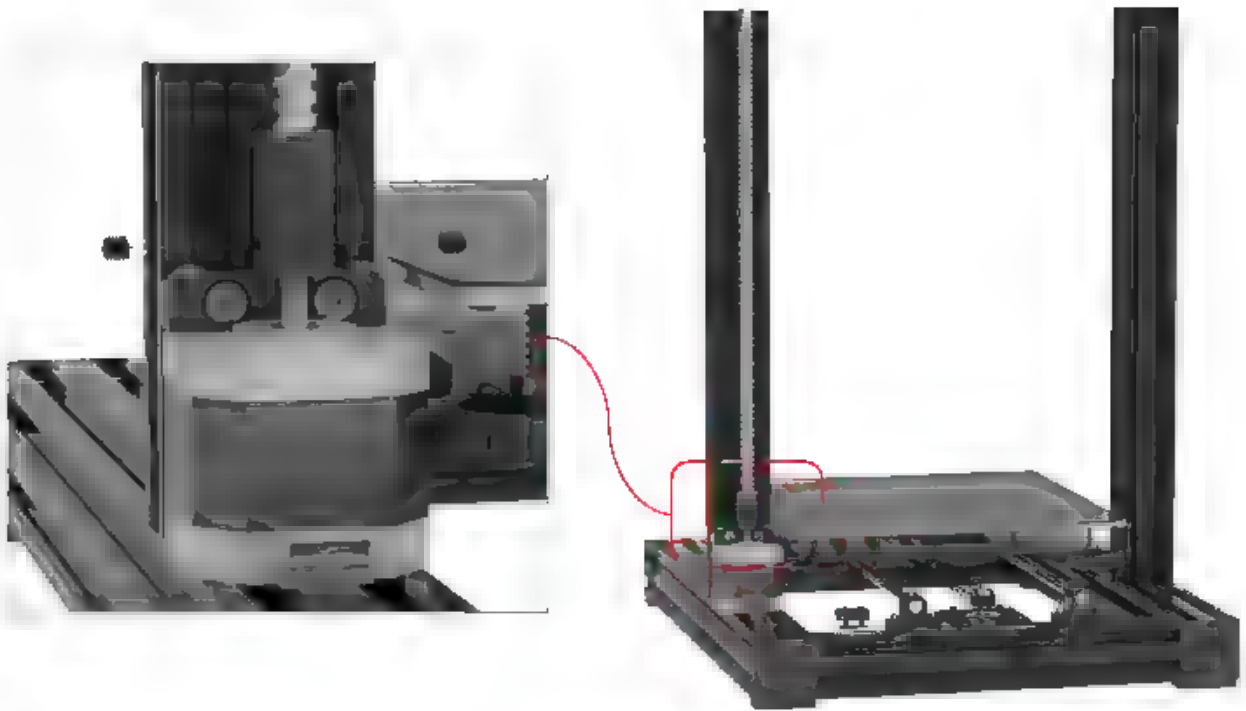
(2) Install Z motor.



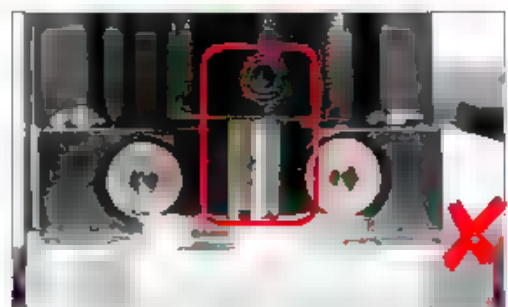
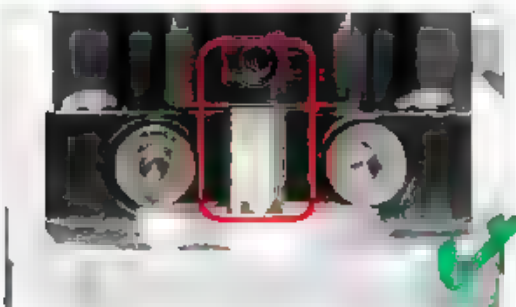
The motor can not tilt

Installation

(3) Install the coupler to the Z motor.



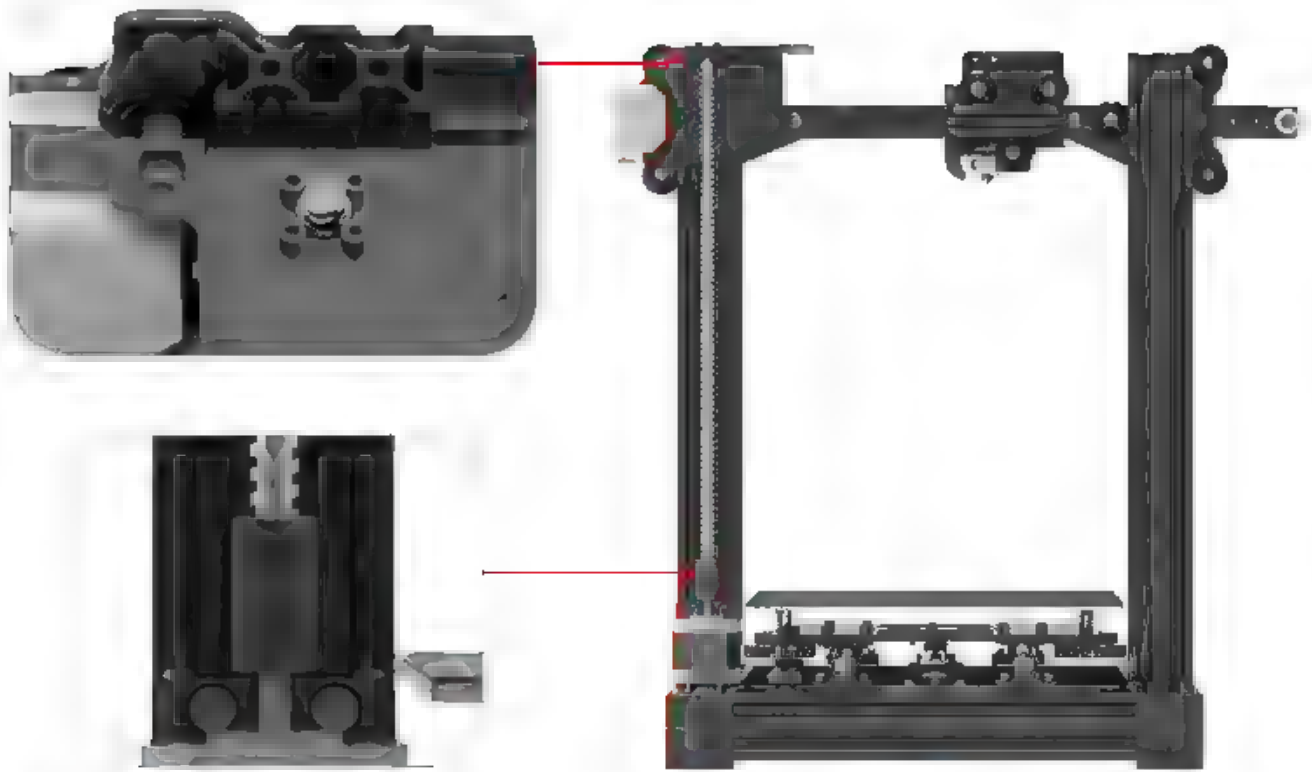
- ① Screw out the two set screws on the coupler.
- ② Insert Z motor into coupler.
- ③ Tighten the two set screws to fix the Z motor.



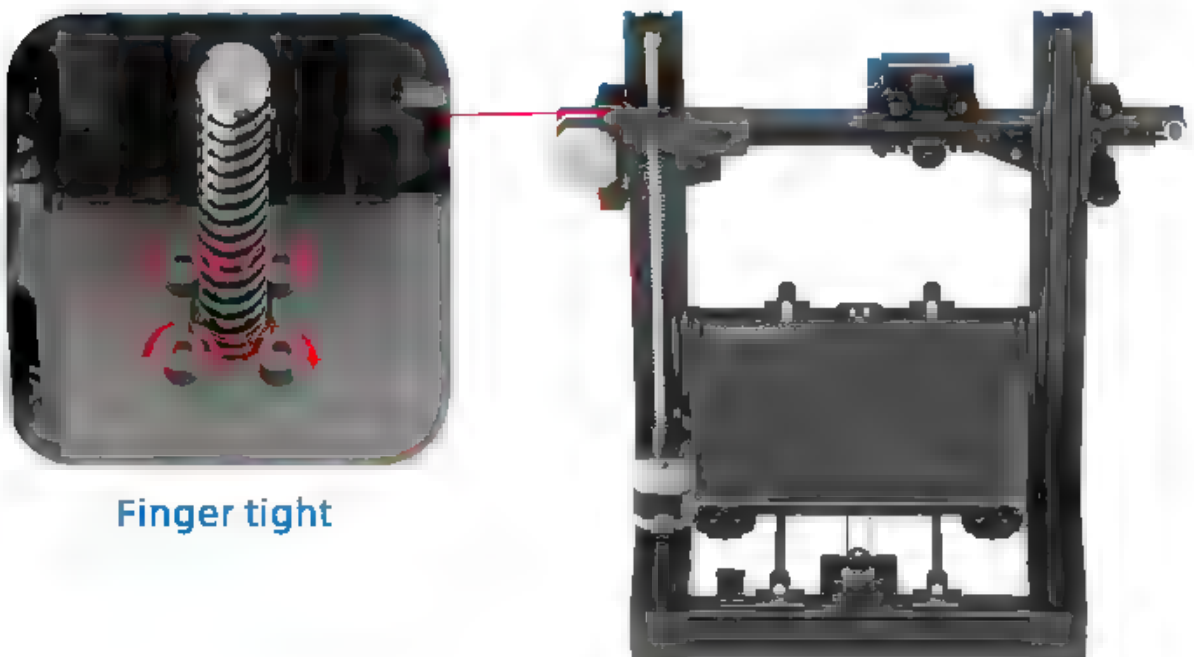
One of the set screws must be screwed onto the flat surface of the Z motor shaft.

Installation

(4) Install X module.



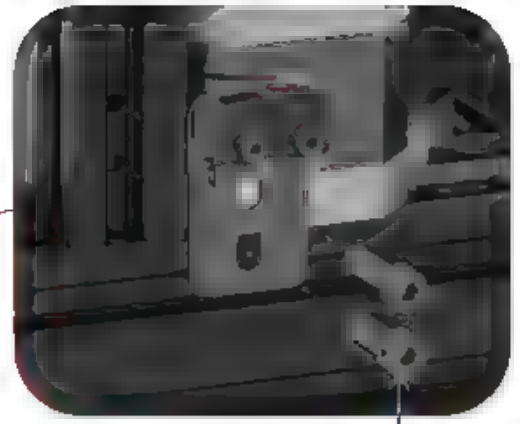
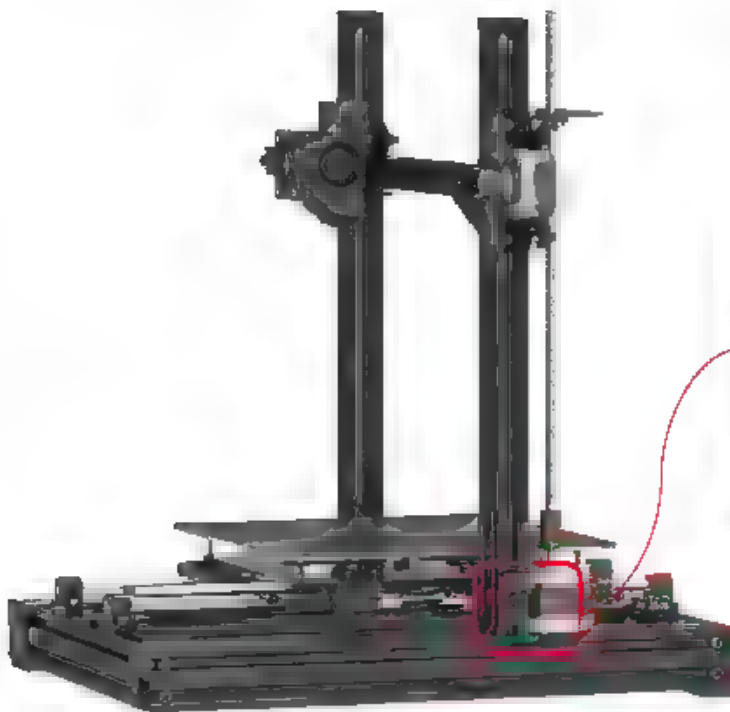
- (1) Slide the X module to the aluminum beams by D shape wheels
- (2) Turn the coupler to lower the X module by 8cm



Finger tight

Installation

(5) Install Z limit switch.



M4*16

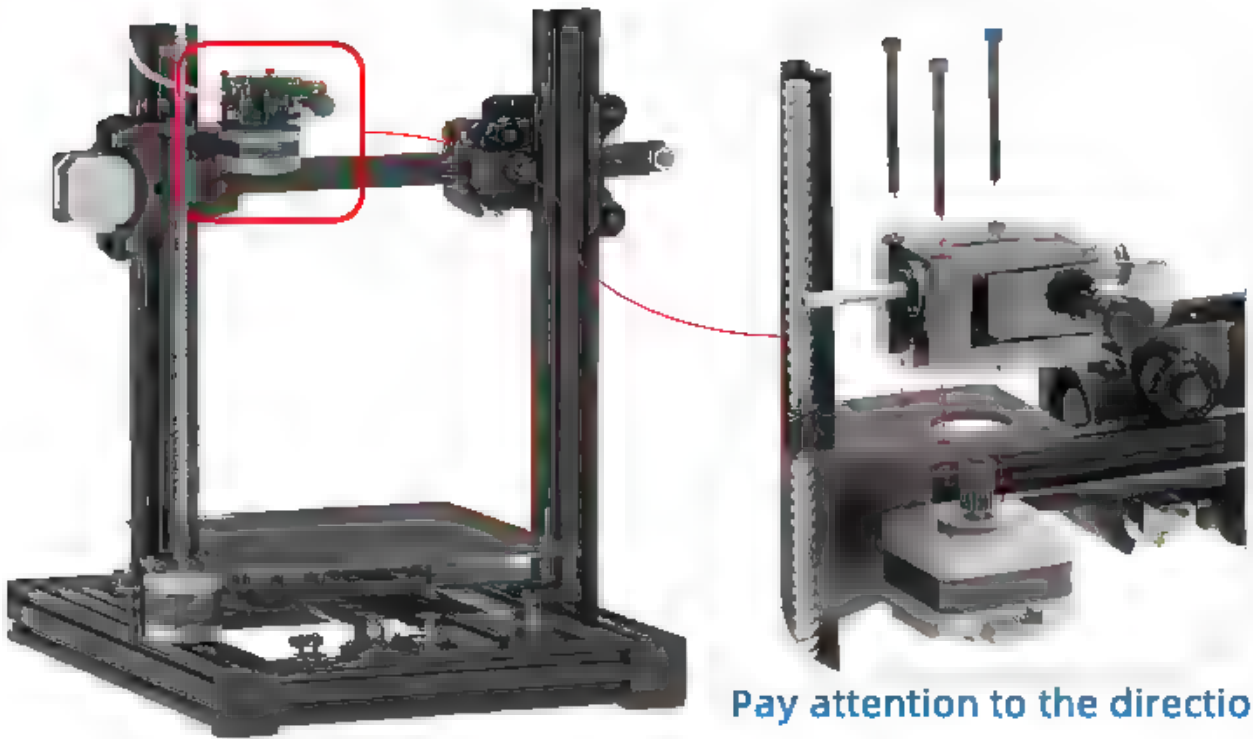
Pay attention to the relative position of the U-type hole and the screws on the Z limit switch, so to allow future adjustment.



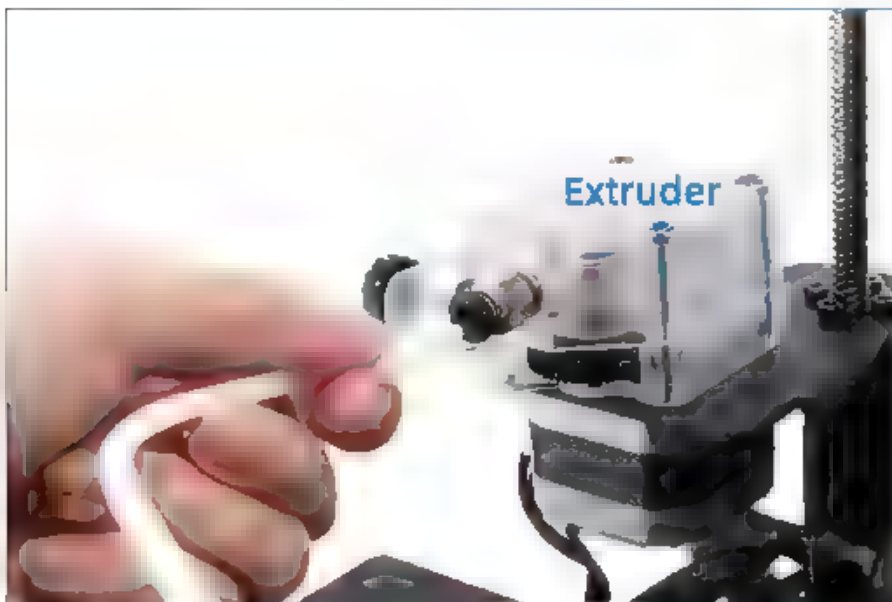
Installation

(6) Install the extruder.

M3*38



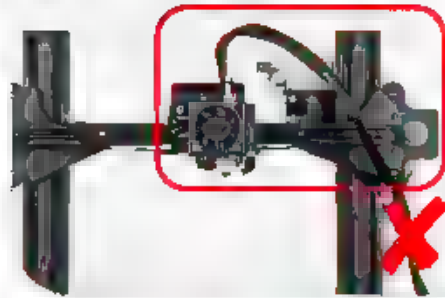
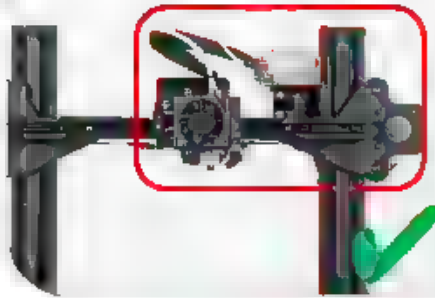
Pay attention to the direction of the extruder and motor.



Insert the teflon tubing into the extruder till the end.

Installation

(7) Install the top aluminum beam.

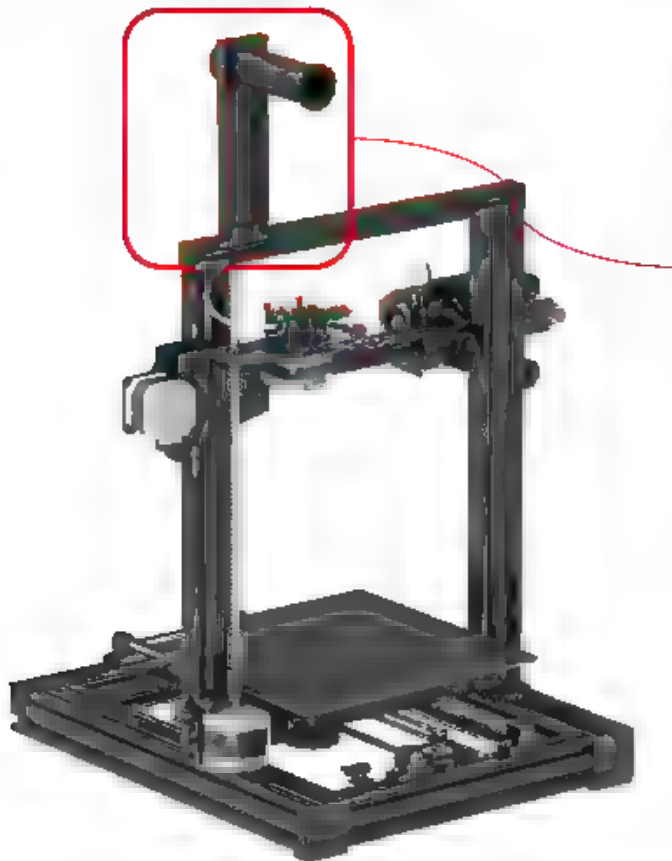


The print head cable needs to be laid behind the right end of the aluminum beam.



Installation

(8) Install filament holder.

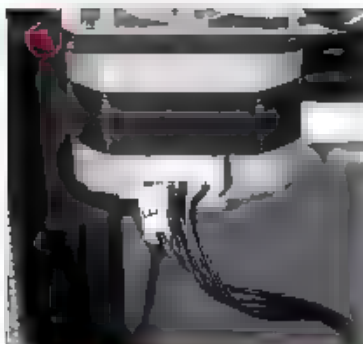
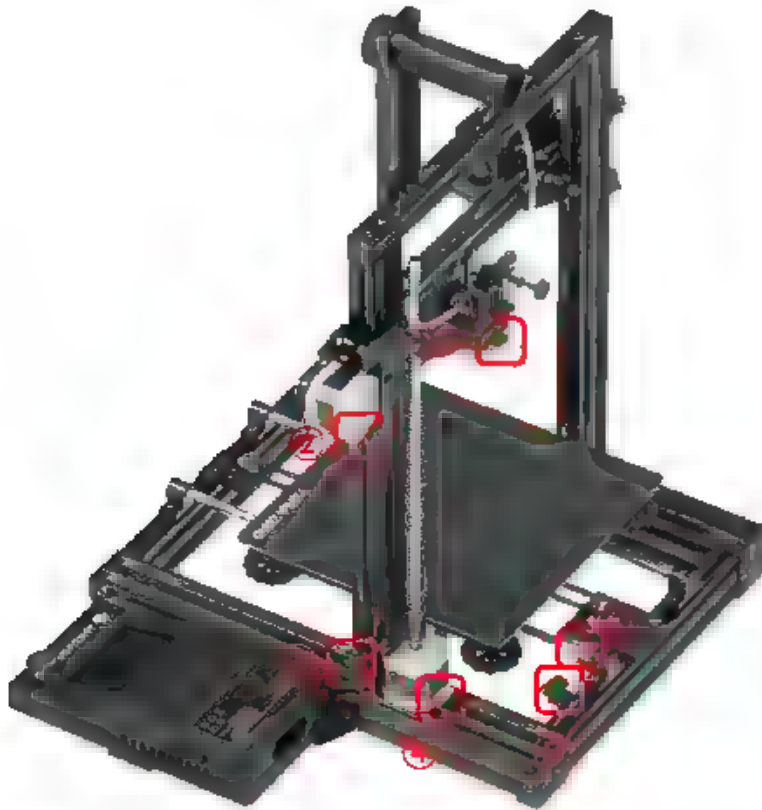


(9) Install control box.

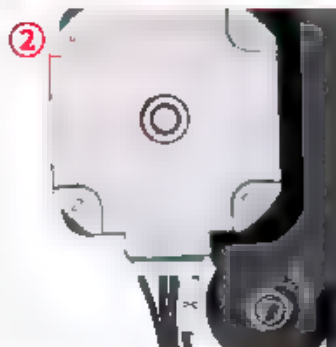


Installation

2. **Wiring:** connect all these wires to their corresponding ports by the label respectively.



Extruder motor



X motor



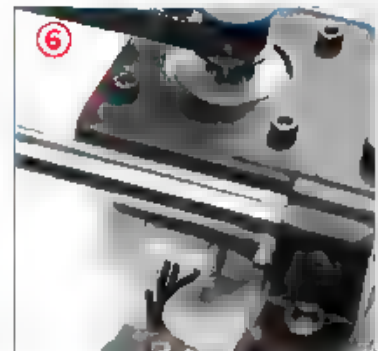
Z limit switch
(Random color)



Z motor



Y limit switch
(Random color)



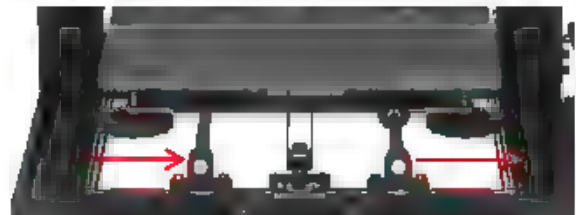
Y motor

Leveling

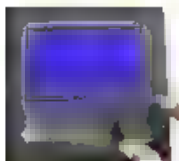
It is essential to level the print platform of a 3D printer. Once leveled, it is not necessary to level every time before each prints. Please follow the procedures below:

1. Manual leveling

(1) Plug in the power cord and switch on the printer. Then tighten the four adjustable nuts underneath the printing platform, to avoid the print head hitting the printing platform when homing.



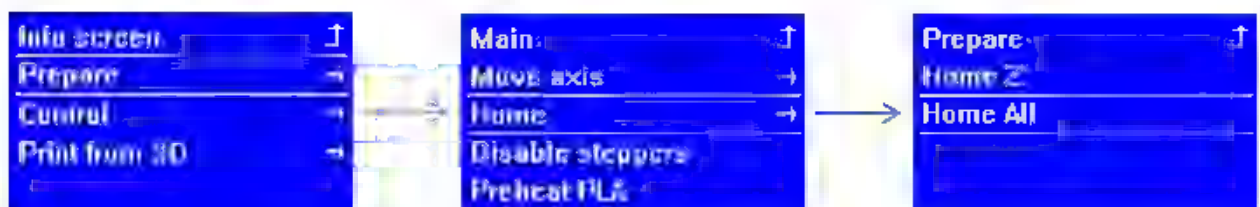
(2) Press the knob on the screen to enter the main menu, navigate and press the knob : "Prepare" → " Home" → " Home All"



Turn to navigate



Press to confirm

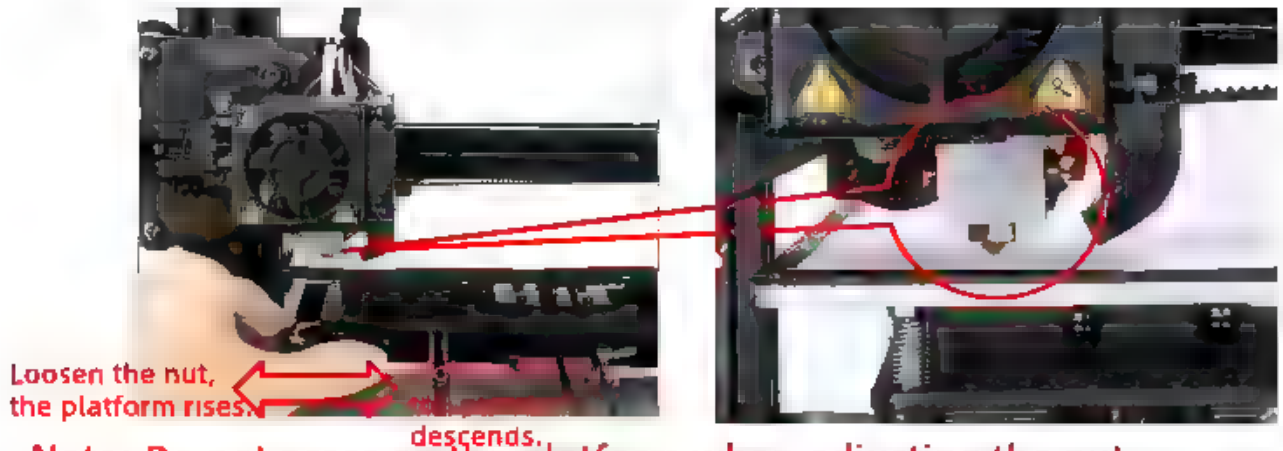


(3) After home, press the knob on the screen to enter the main menu, navigate and press the knob : "Prepare"→ " Level corners", and the print head will move to the first leveling point.



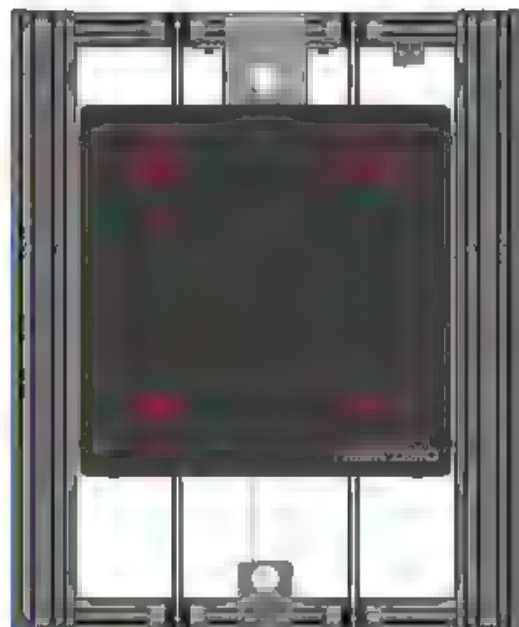
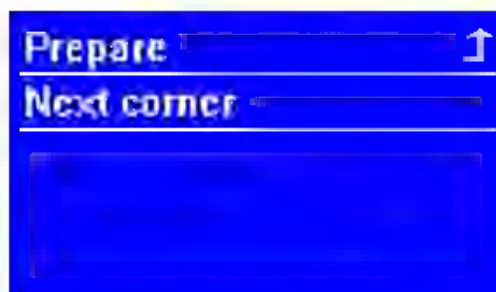
Leveling

(4) Put a piece of A4 paper at the first leveling point on the printing platform. Then manually adjust (tighten or loose) the corresponding nut underneath the printing platform. The purpose is to adjust the distance between nozzle and print platform to about the thickness of a piece of paper (~0.1mm, feel the slight drag resistance when pulling the paper).



Note: Do not press on the platform when adjusting the nut, otherwise it will be affecting the leveling accuracy.

(5) After the leveling of the first point, Press the knob to choose "Next corner" for the leveling of the next point (refer to the step 4). The leveling of the four points in the figure below must be completed.



Leveling

After the leveling of the fourth point, you must choose "Next corner" to return to the first point to level again. Please adjust the 4 points of the platform 2 or 3 times to ensure leveling result is OK, otherwise the platform could be scratched.

2. Supplements to leveling

Case ①: After homing, the nozzle is still much lower than the platform, even if the 4 nuts underneath are fully tightened.

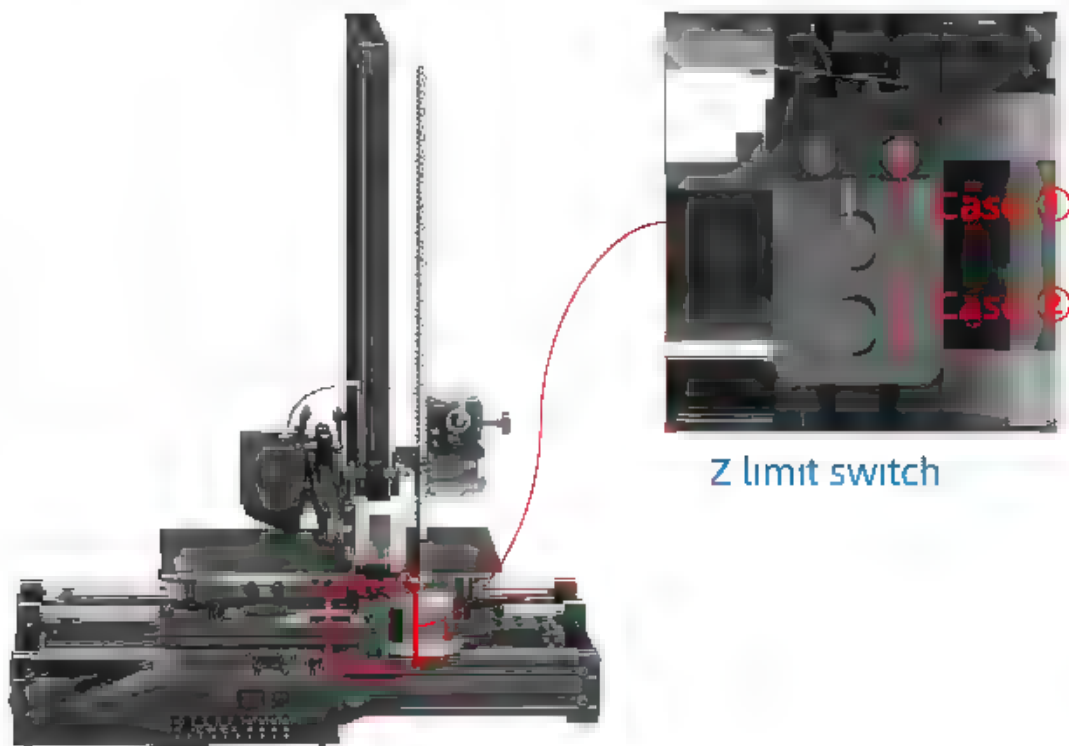
Case ②: After homing, the nozzle is still too far from the platform, even if the 4 nuts underneath are fully loosened.

How to solve this:

Case ①: adjust Z limit switch up.

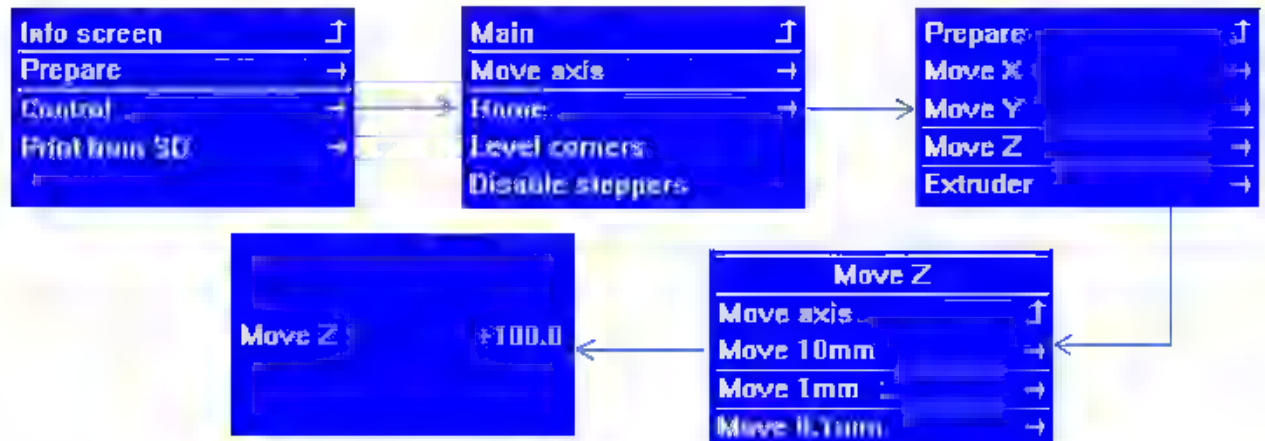
Case ②: adjust Z limit switch down.

After adjusting, please home and level again.



1、Filament in

(1) Press the knob on the screen to return to the main menu, then navigate and press the knob : "Prepare" → "Move axis" → "Move Z" → "Move 1mm" , turn the knob to set the Z value to 100, and then press the knob to confirm it. The print head will rise 100mm.

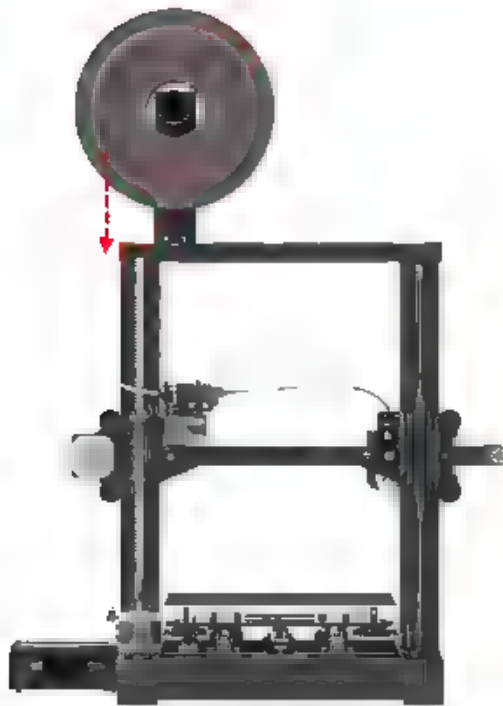


(2) Return to the "Prepare" menu, navigate and press the knob to choose "Preheat PLA". The target temperature of the nozzle in the info screen is 190°C.



(3) When the nozzle reaches to the target temperature, place the filament on filament holder, please note the feeding direction of filament. Straighten the end of filament, and then press the handle on the extruder and insert the filament into the extruder and let it reach into the teflon tubing.

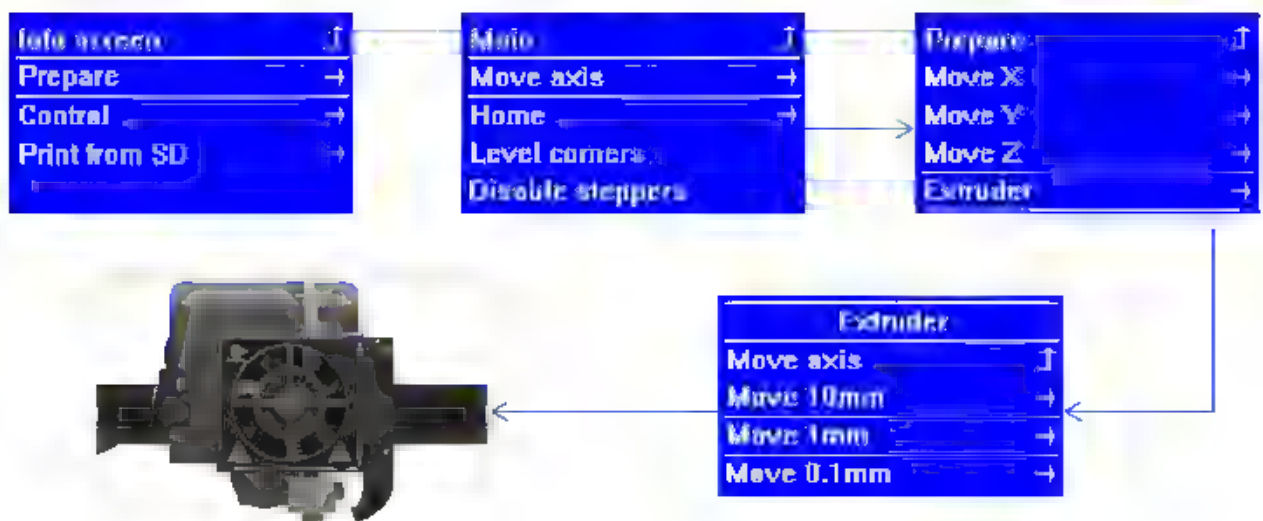
Print model



Press the handle
on the extruder

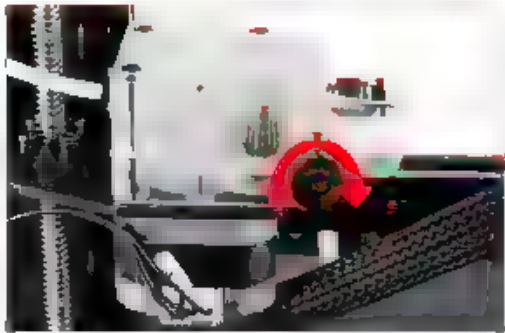


(4) Press the knob on the screen to enter the main menu, navigate and press the knob "Prepare" → "Move axis" → "Extruder" → "Move 1mm", turn the knob and the filament would be automatically fed in by the extruder and it would be melted through the nozzle. Then press the knob to return and clean the filament residue on the nozzle tip.



Print model

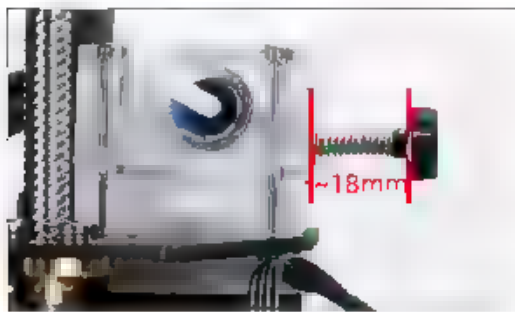
Note: During feeding, if the melted filament is not smooth or too thin, please adjust the extrusion force by rotating the knob as shown below



If the melted filament is not smooth, please increase the extrusion force by rotating clockwise.



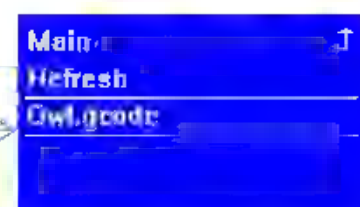
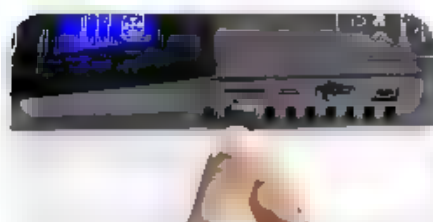
If the melted filament is too thin, please reduce the extrusion force by rotating counterclockwise



Note: The better distance for extruding filament is about 18 mm. You may adjust the distance of the screw for the different filament.

2. Print test

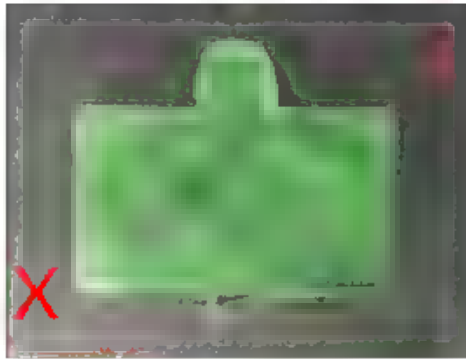
Insert the memory card into the memory card slot at the control box. The printable test file has been saved to the memory card. Press the knob on the screen to enter the main menu, navigate and press the knob : "Print from SD" → "owl.gcode" (owl, 作者: etotherpi, www.thingiverse.com). (If the test file "owl.gcode" is not display, please press the knob to choose "Refresh".)



Print model

There might be 3 kinds of results for the first layer of the test prints.

A Nozzle too close, lack of extrusion, the nozzle rub against the platform. Slowly tighten the corresponding nuts underneath by half circle or level again.



Nozzle too close



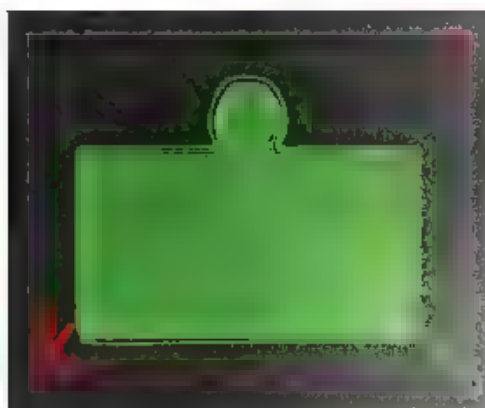
B Proper nozzle height, good extrusion and adhesion.



Proper nozzle height



C Nozzle too high, Large gap, filaments are not even adhere to the platform. Slowly loosen the corresponding nuts underneath the platform by half circle or level again.



Nozzle too high



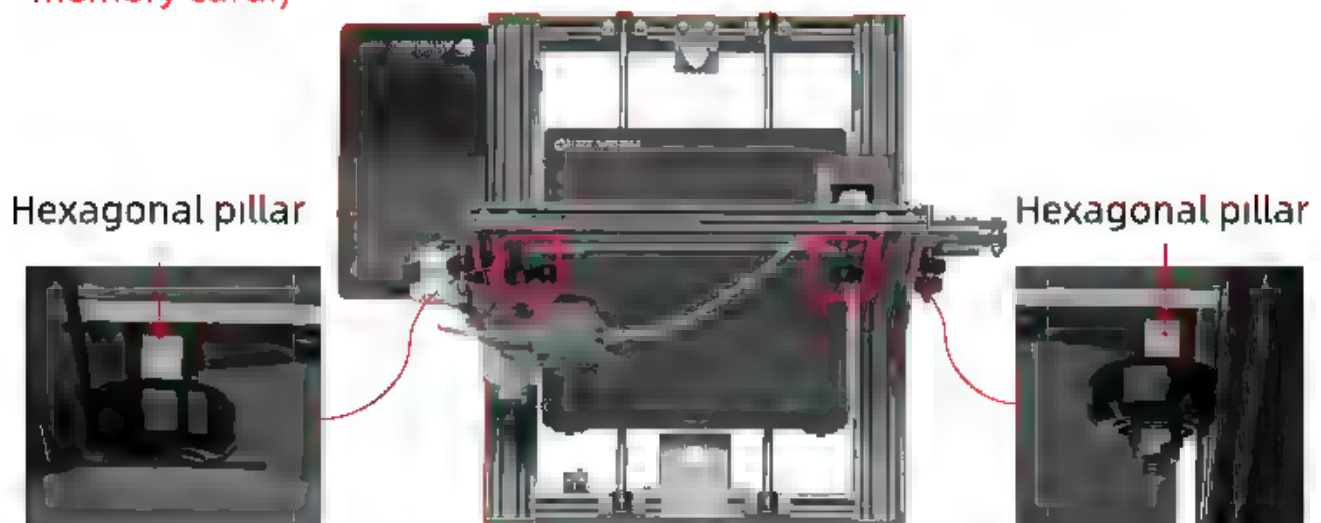
Print model

If you can't improve the model printing effect by fine tuning the adjustable nuts, please level again.

After several times of leveling, if the printing effect is still poor, it may be that the D-shape wheels do not run smoothly or idling during printing

The D-shape wheels has been adjusted in factory, but they may be loose due to transportation.

Check the D-shape wheels Pull the X module up and down. If the D-shape wheels along Z axis do not roll smoothly or idling, use a wrench to slowly turn the hexagonal pillars until the D-shape wheels roll smoothly. (For detailed adjustment, please refer to the video on the memory card.)



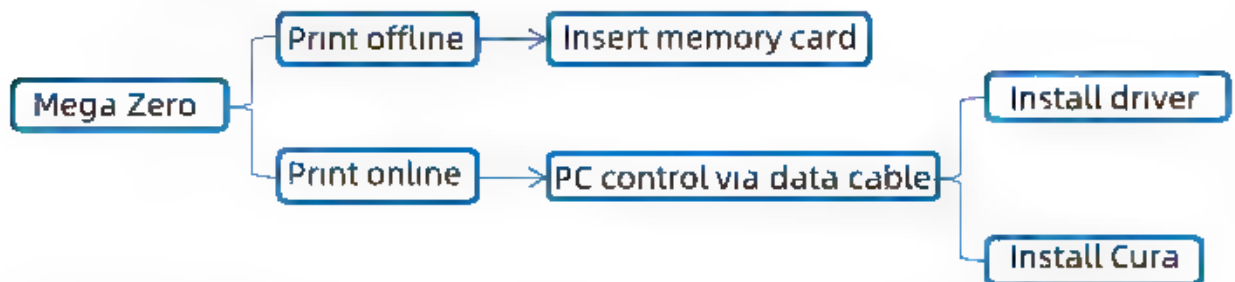
Check the D-shape wheels and the hexagonal pillars on both sides, and make sure they run smoothly after adjustment

Driver installation

There are two operational mode for Mega Zero : print offline and print online.

Print offline: As shown previously, insert memory card to right side of the control box, press the knob to select “Print from SD” and print a selected file (GCode files ONLY).

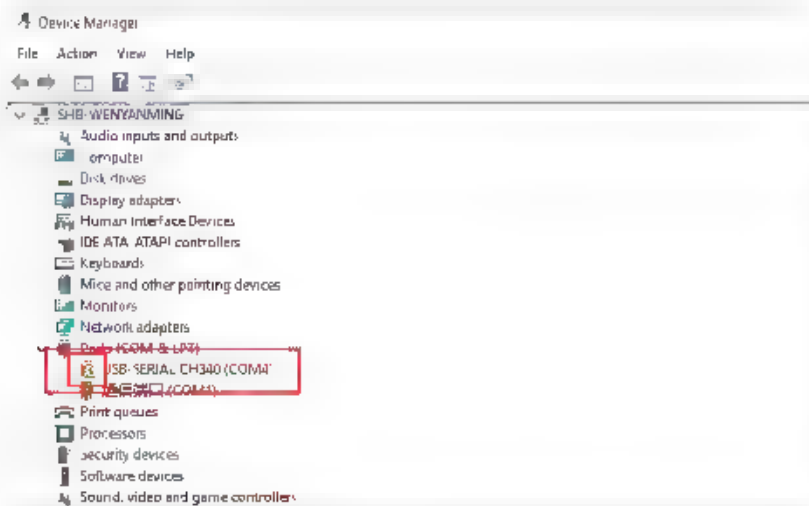
Print online: Install CH340 driver to bridging PC and machine, and install Cura for slicing and control the machine to print via data cable



It is suggested to use **Print Offline** mode to minimize the noisy signal via data cable.

How to install the software to enable PC control (print online).

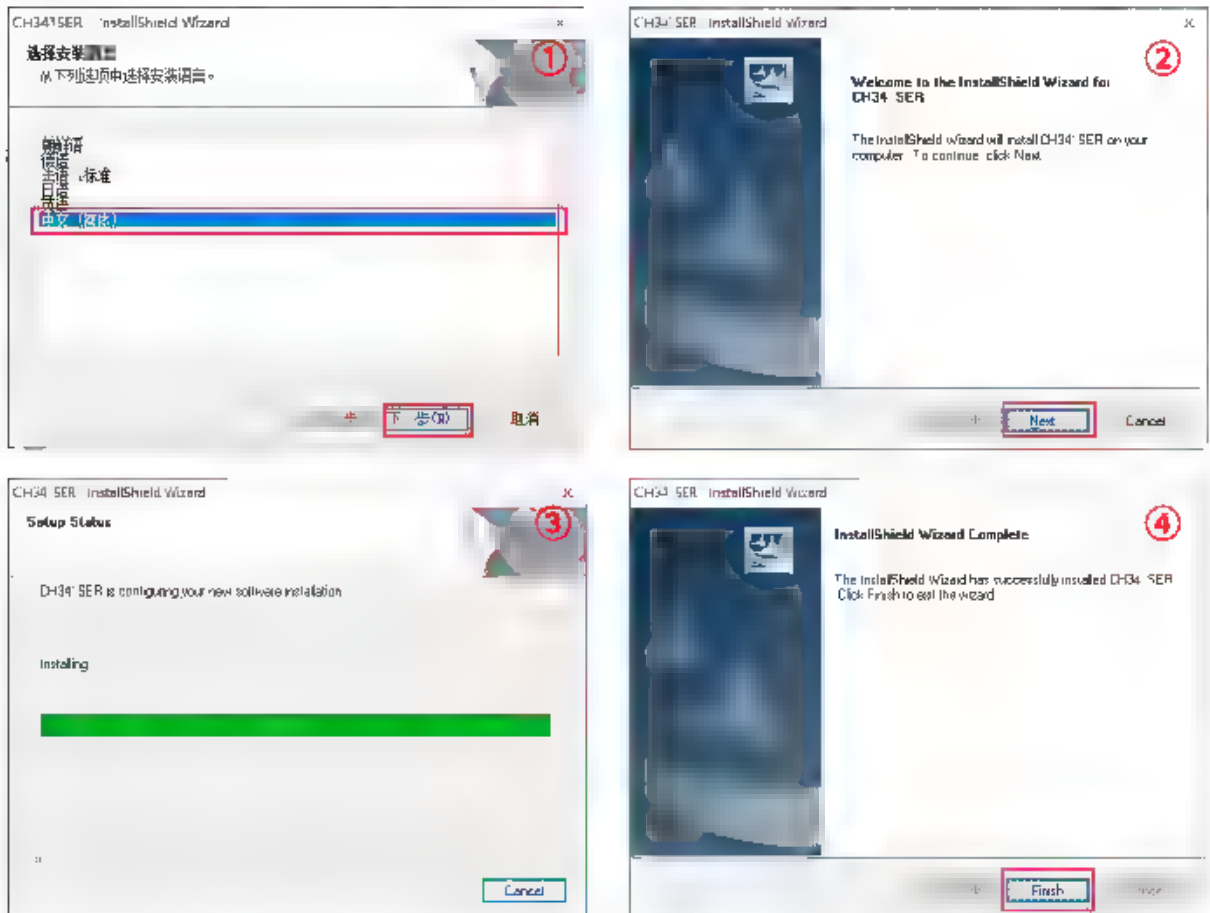
First, turn on the machine, connect the printer (data cable port) and your PC via data cable. Mega Zero uses CH340 chip for communication. The CH340 driver may not be installed automatically, so it is required to check that. Right click “This PC”→ “Properties”→“Device manager”, if there is an exclamation mark as shown below, then it needs to be installed manually.



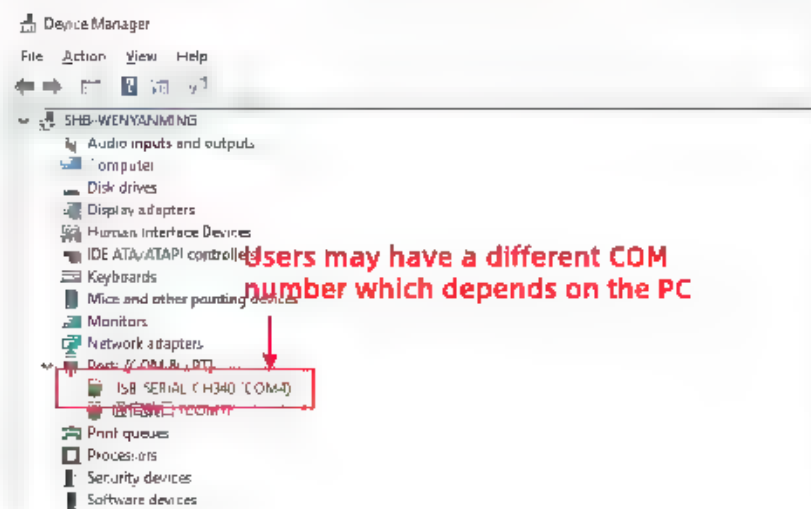
Driver installation

CH340 driver file are located in the memory card (or visit our website to download). "Files_English_MEGA ZERO"→"Driver_CH341"→"Windows"
(CH341 driver file is suitable for CH340 chip).

Double click "CH341SerSetup.exe" to install it.



Right click "This PC"→ "Properties"→"Device manager"to check, you can see that the exclamation mark has disappeared.



Introduction to slicing software

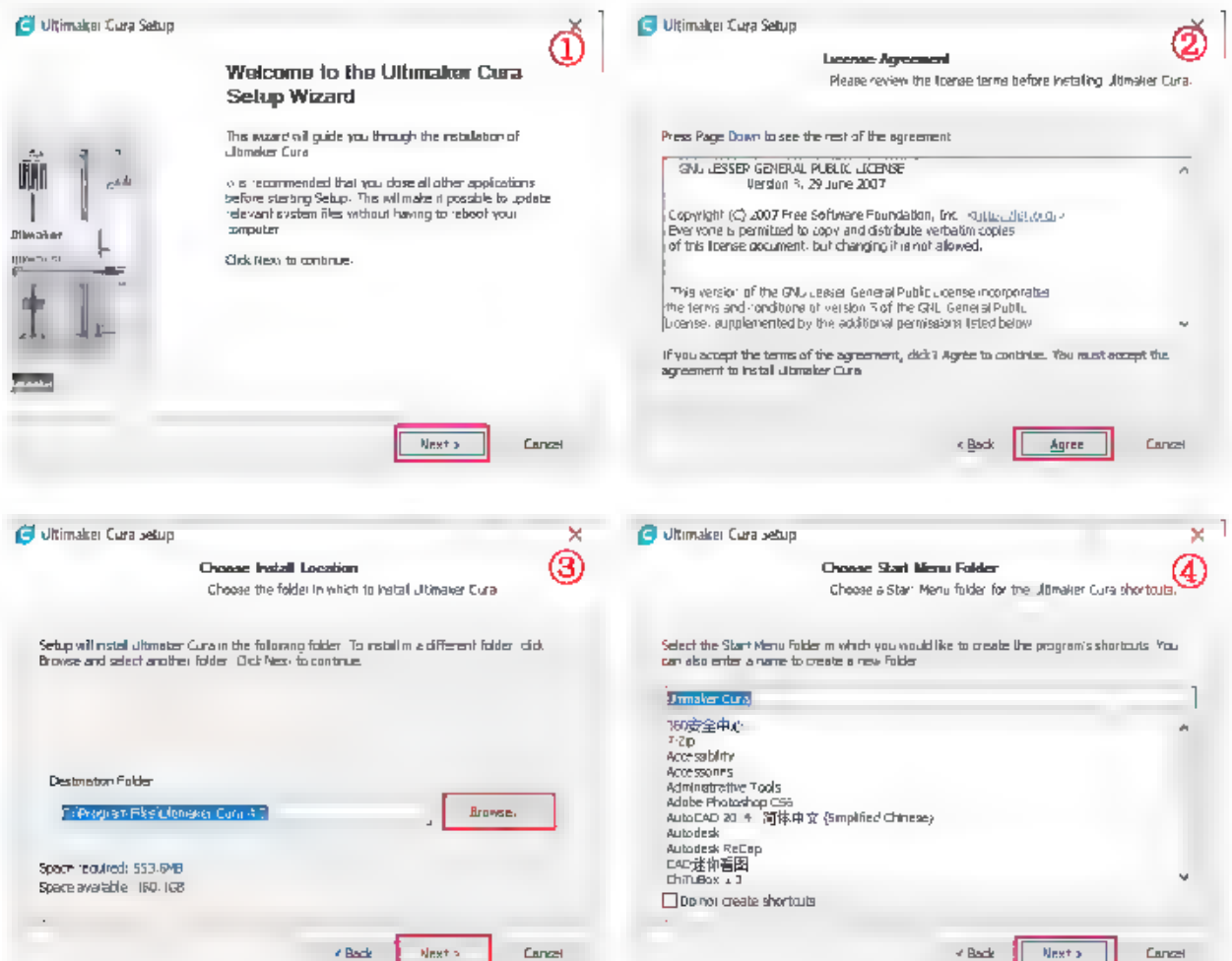
Introduction of slicing software: ①Cura installation, ②Machine settings, ③Import the configuration file , ④ Manipulate 3D model in Cura, ⑤Slice and preview, ⑥Print online, ⑦Print offline

1. Cura installation

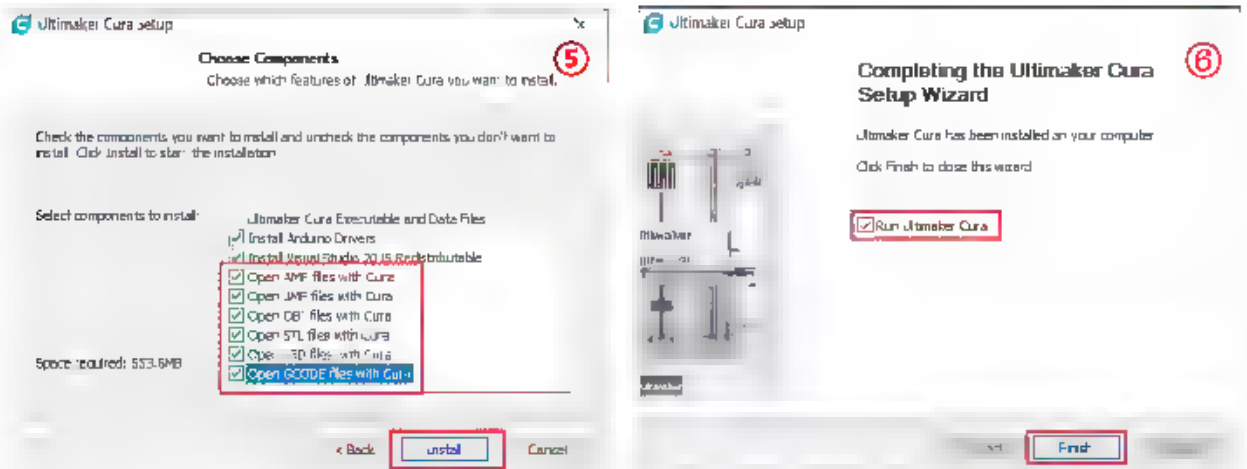
3D printer reads Gcode file and prints. It is necessary to convert 3D files (such as stl file) into Gcode files for machine to recognize. Software that convert 3D files into Gcode files is called slicing software

Ultimaker_Cura-4.2.1-win64 is used for example here (Users may use their own slicer software) It is located in memory

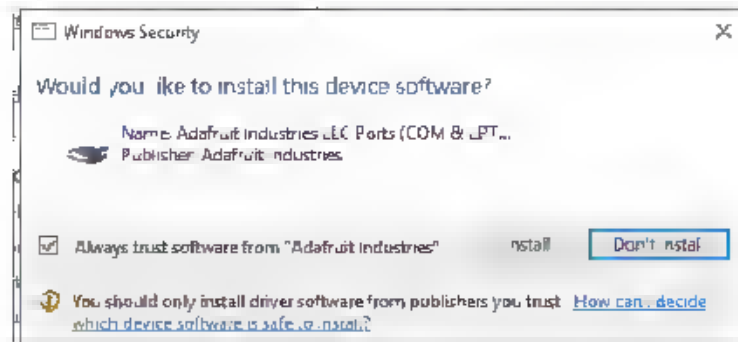
card→" Files_English_MEGA ZERO"→ " Cura"→ " Windows". Double click "Ultimaker_Cura 4 2 1 win64 exe", and follow the steps as shown below.



Introduction to slicing software

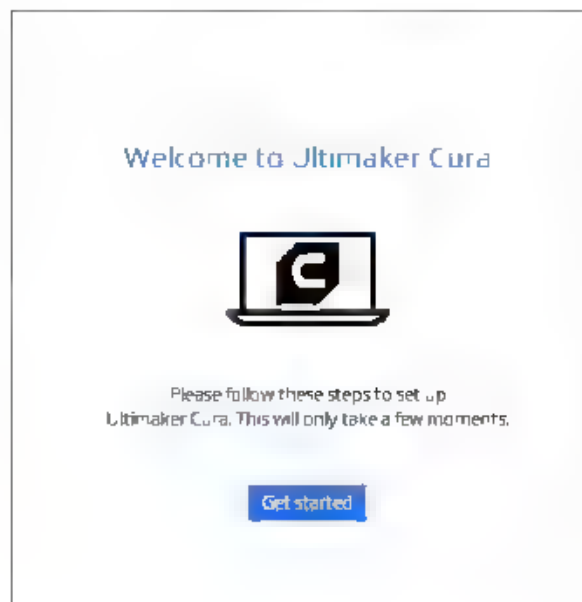


Note: Printing online requires the installation of a driver, as shown below. If you don't print online, you don't need to install it.



2. Machine settings

Upon completion of installation, the first launch of the software will display the following welcome screen. Click "Get started" to start the machine settings.



Introduction to slicing software

①

User Agreement

Disclaimer by Ultimaker

Please read this disclaimer carefully.

Except when otherwise stated in writing, Ultimaker provides any Ultimaker software or third party software "As is" without warranty of any kind. The entire risk as to the quality and performance of Ultimaker software is with you.

Unless required by applicable law or agreed to in writing, in no event will Ultimaker be liable to you for damages, including any general, special, incidental or consequential damages arising out of the use or inability to use any Ultimaker software or third party software.

Decline and close

Agree

②

What's new in Ultimaker Cura

4.2.0

Orthographic view.

When preparing prints, professional users wanted more control over the 3D view type, so this version introduces an orthographic view, which is the same view type used by most professional CAD software packages. Find the orthographic view in View > Camera view > Orthographic, and compare the dimensions of your model to your CAD design with ease.

Object list.

Easily identify corresponding filenames and models with this new popup list. Click a model in the viewport and its filename will highlight, or click a filename in the list and the corresponding model will highlight. The open or hidden state

Next

③

Help us to improve Ultimaker Cura

Ultimaker Cura collects anonymous data to improve print quality and user experience, including

Machine types



Material usage



Number of slices



Print settings



Data collected by Ultimaker Cura will not contain any personal information. [More information](#)

Next

④

Add a printer

Add a new networked printer

There is no printer found over your network

Refresh

Add printer by IP

[Troubleshooting](#)

Add a non-networked printer

Next

⑤

Add a printer

Add a networked printer

Add a non-networked printer

Anycubic

- ☐ Anycubic 4Max
- ☐ Anycubic Chiron
- ☒ Anycubic 3 Mega

> Atom Ventures Co., Ltd.

> BEEVERYCREATIVE

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> Cocoon Create

Printer name: Anycubic 3 Mega

Next

⑥

Ultimaker Cloud



The next generation 3D printing workflow

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Get exclusive access to print profiles from leading brands

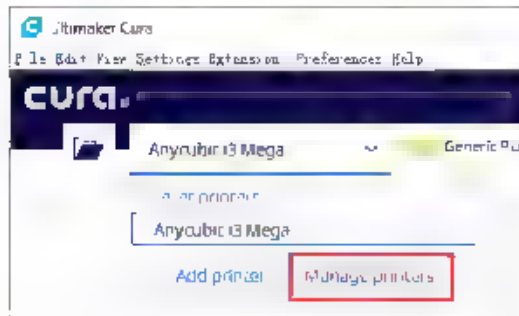
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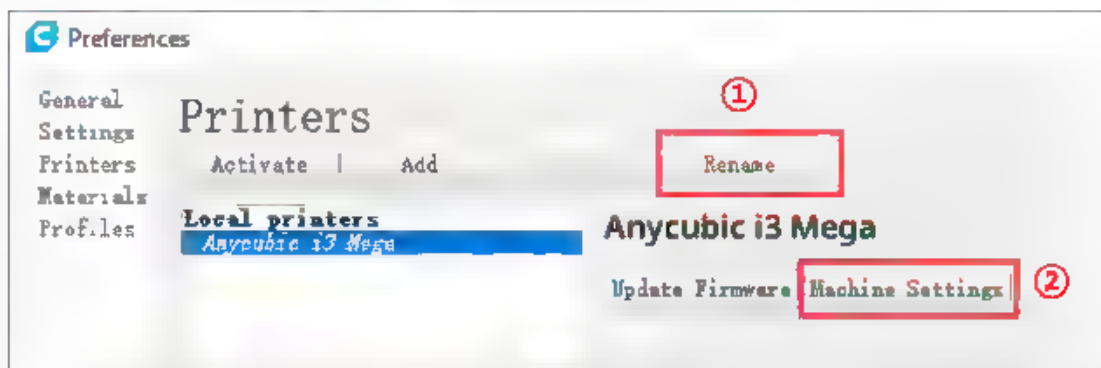
Introduction to slicing software

According to the wizard, we have selected the "Anycubic i3 Mega" model. Now, we will set the model parameters of Mega Zero based on that model.

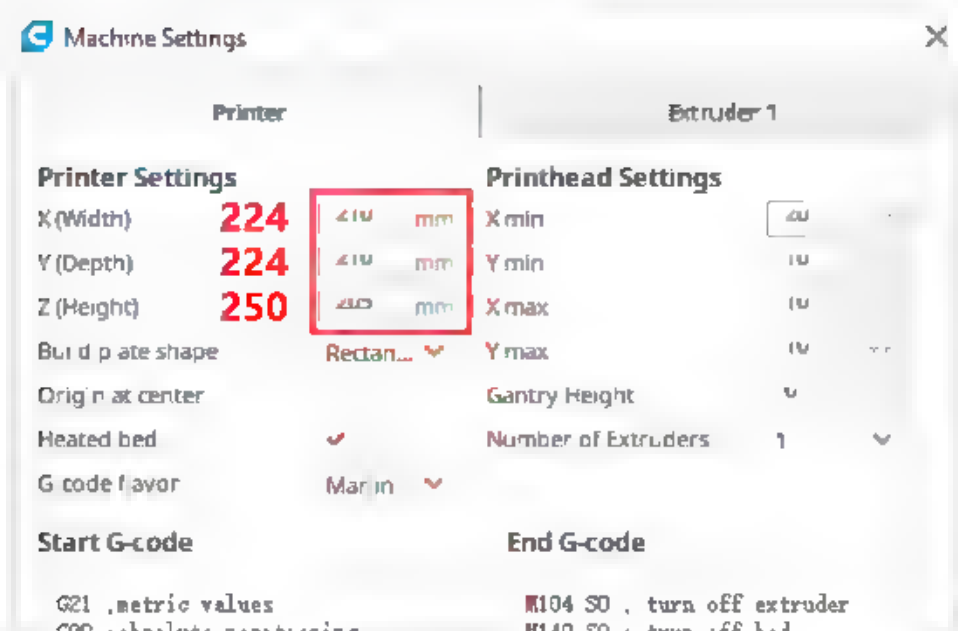
(1) Click "Manage printers", as shown below.



(2) Click "rename" to change the machine name to "Anycubic Mega Zero", and then click "Machine Settings".



(3) Modify the "XYZ" parameters as 224, 224 and 250 respectively on the "Machine Settings" page, as shown below.

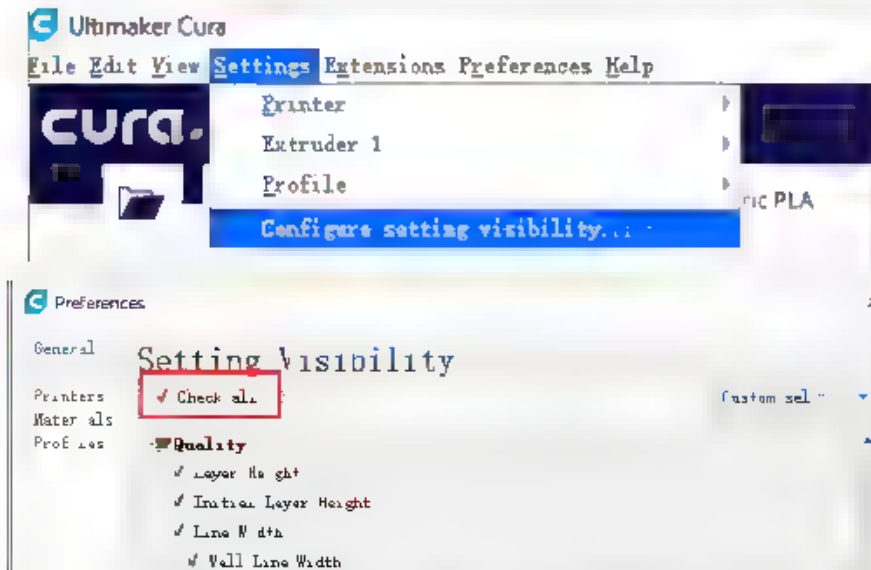


Introduction to slicing software

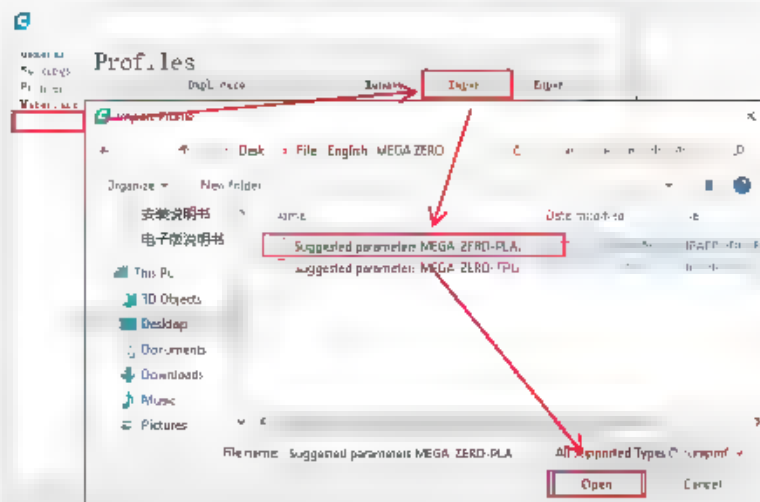
3. Import the configuration file

After continuous testing, we provided users the suggested printing parameters of different filaments for Mega Zero, and the user could directly import the parameter files in the memory card to the software.

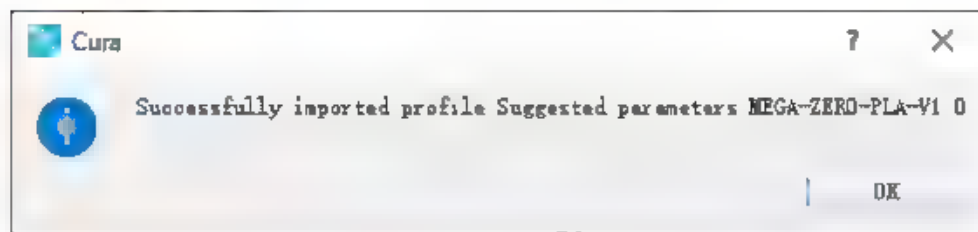
(1) Click "Settings" "Configure setting visibility. .", and then check "Check all" to make all Settings visible.



(2) Click "profile" on the left, and then click "import" to open the "import profile" dialog box, then select the "Suggested parameters MEGA-ZERO-PLA-V1.0. curaprofile" (file path: memory card → "File _English _MEGA ZERO"), and click "open". After successful import, the following success prompt will pop up. Please import the "Suggested parameters MEGA ZERO-TPU-V1.0. curaprofile" file as so.

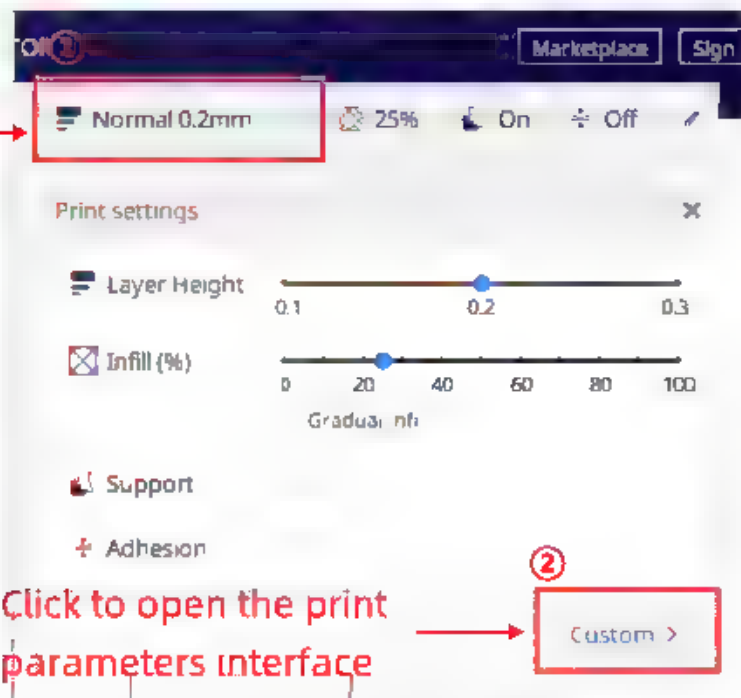


Introduction to slicing software

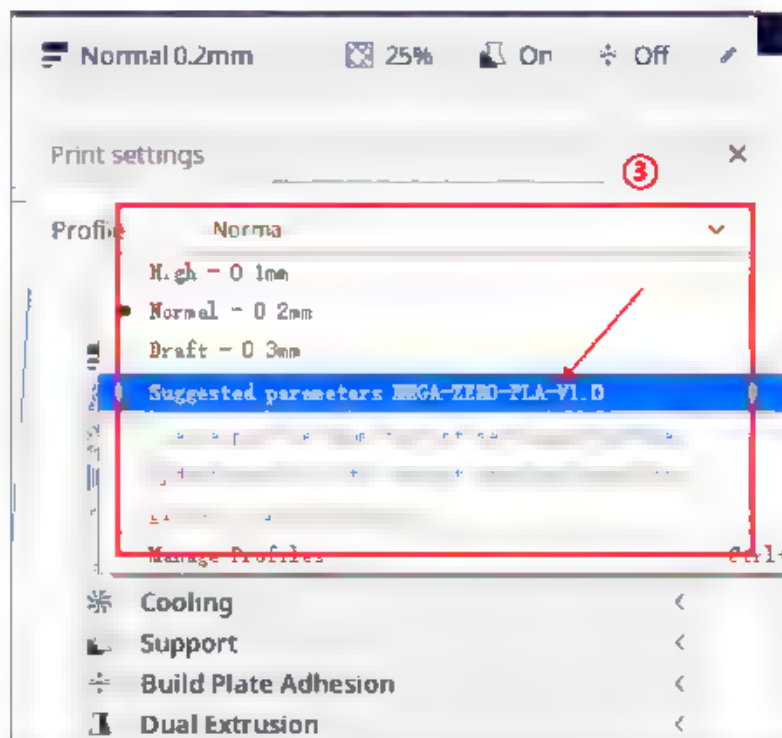


(3) Select the configuration file that you just imported

Click to open
"Print settings"



Click to open the print
parameters interface

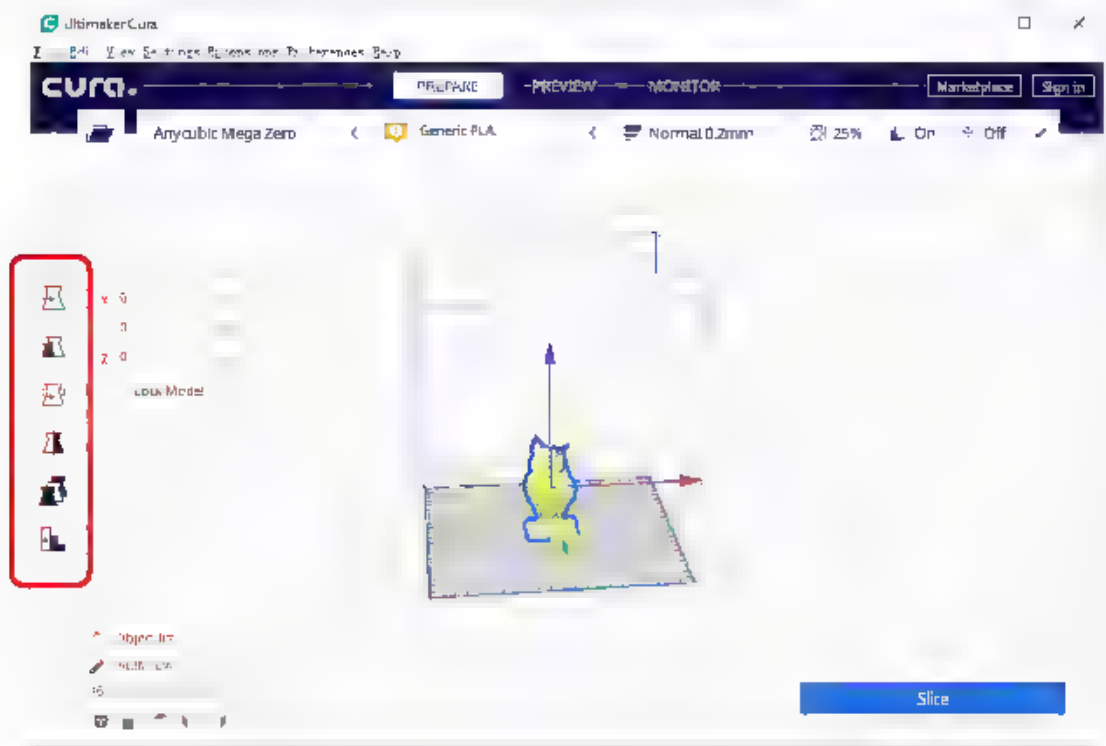


Introduction to slicing software

4. Manipulate 3D model in Cura

In the Cura software interface, click on the “File” → “Open File(s) ..” to import your own three-dimensional format model (such as .stl file).

Users can “Rotate” “Scale” “Mirror” the model. As shown below:



Other operations:

- a) Position change: left click on the model, hold on and drag the model to move.
- b) Zoom in/out: scroll the mouse wheel.
- c) Change viewing angle: right click and move the mouse.

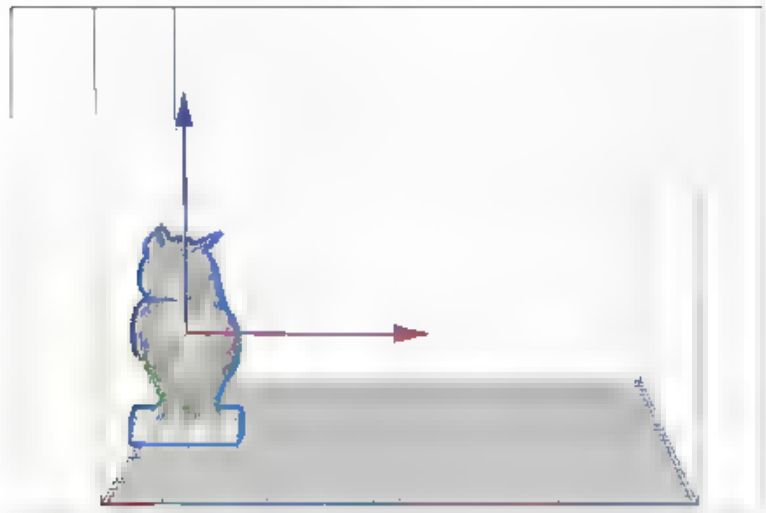


Per Model Settings: When you open multiple models, you can configure a separate slice configuration for the specified model.

Support Blocker(E): Set the mask area on the model so that the support could not be generated on the set area.

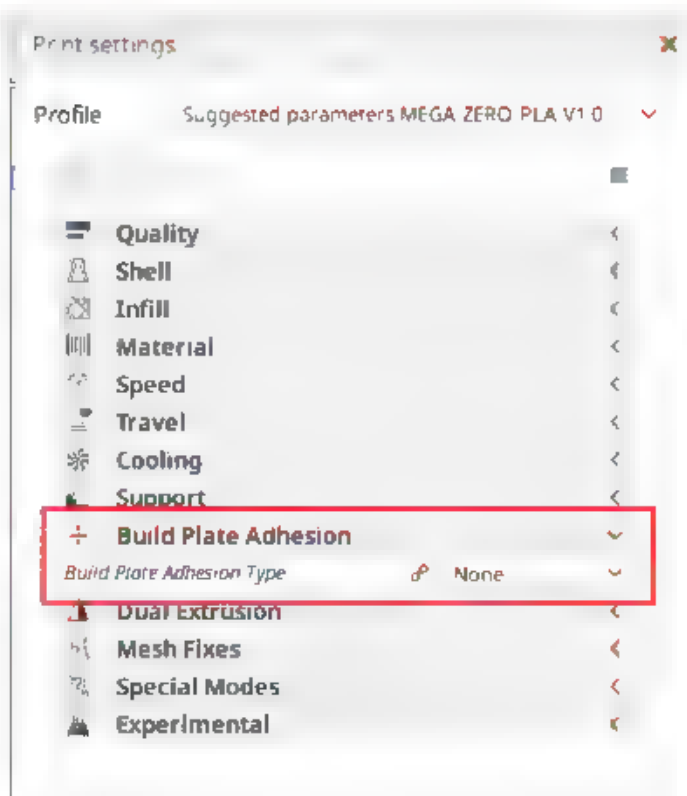
Introduction to slicing software

Note: as shown in the figure on the right, the gray color of the model indicates that the model is out of print range.



After importing the model, users can customize the printing parameters according to individual needs. But the configuration files that we provide are suggested.

Note "Suggested parameters MEGA ZERO PLA V1 0. curaprofile" file is prepared for PLA filament, and "Suggested parameters MEGA-ZERO-TPU V1 0 curaprofile" file is prepared for TPU filament

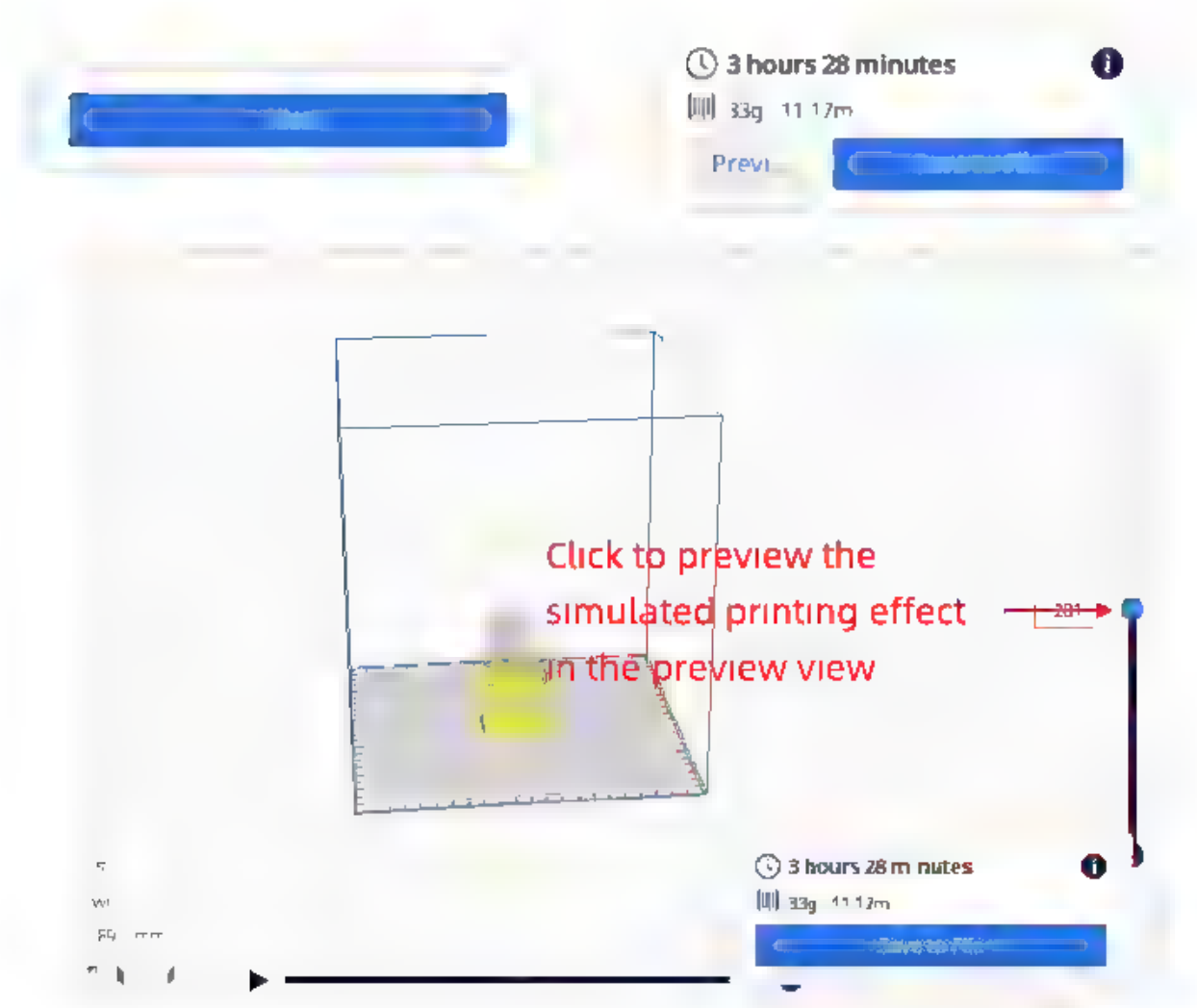


Note: The "Build Plate Adhesion Type" parameter needs to be set to "None" when printing the maximum size model.

Introduction to slicing software

5. Slice and preview

After setting the printing parameters, click the "Slice" button in the lower right corner of the software. After the Slice is finished, click the "preview" button to preview the simulated printing effect in the preview view.

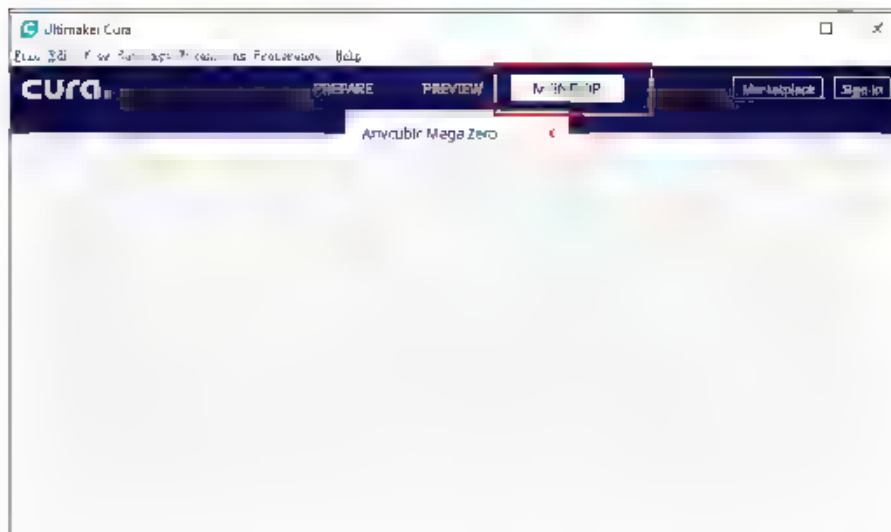


Click to preview the
simulated printing effect
in the preview view

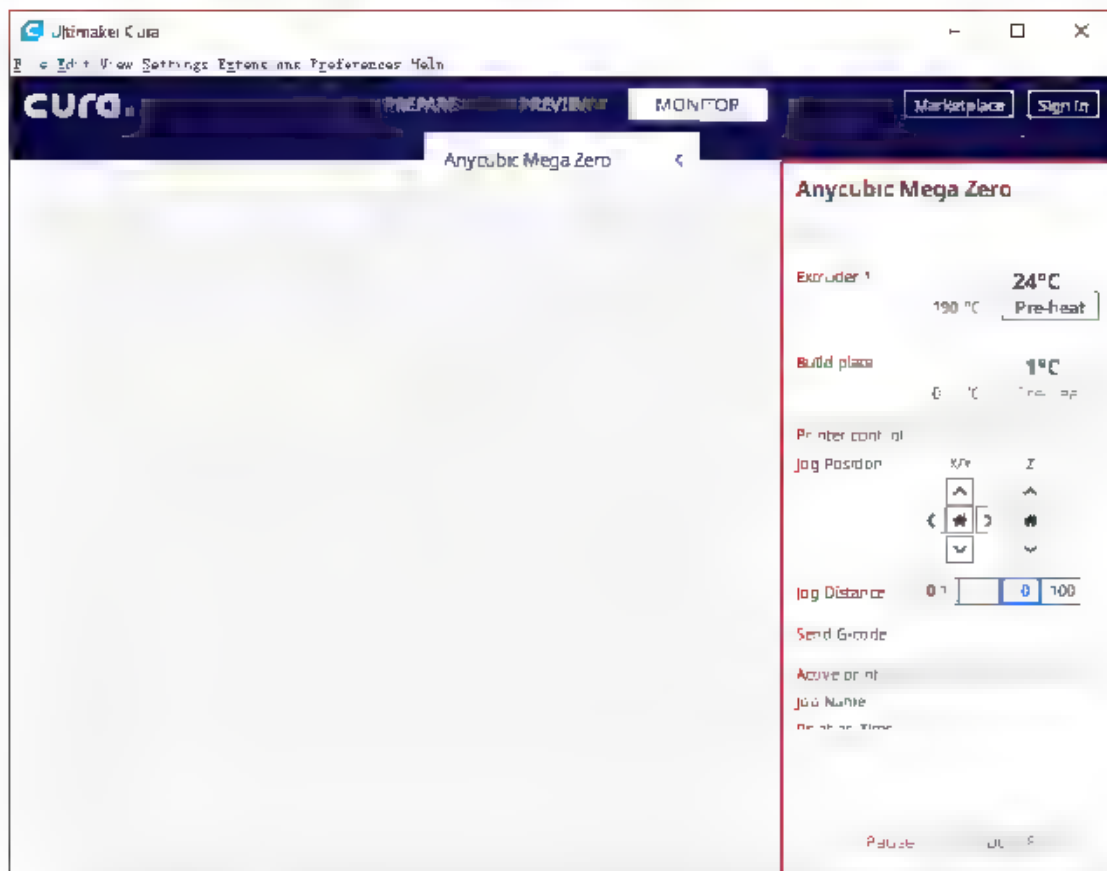
6. Print online

After the parameters have been set up, you can print online via Cura. Click the "MONITOR" on the main interface. If the printer is not connected properly, the interface will be blank.

Introduction to slicing software



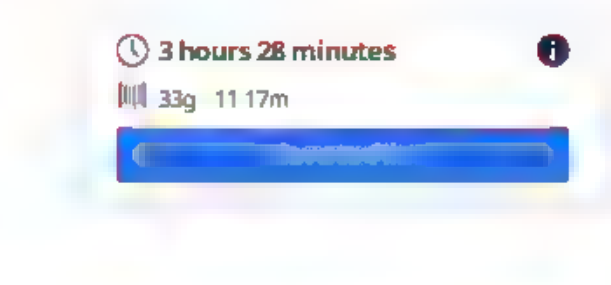
After connecting the data line, Cura will automatically connect to the printer. After waiting for more than ten seconds, the operation panel will be displayed on the right side of the interface. User can control printer through the operation panel. (In the process of printing, do not plug the data line, or it will interrupt the printing)



7. Print offline

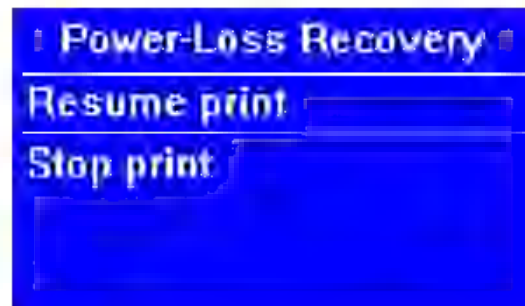
After slicing, click "save to file" in the lower right corner of Cura software. Save the model GCode file to the **memory card**, and then insert the memory card to the printer and control via the touch screen for offline printing.

Note. the file name should only contain English letters, underscore and space. File name contains special characters could not be recognized by the printer. In order to let the printer better recognize the Gcode file in the memory card, you need to back up all the files in the memory card to the computer, and keep the memory card only for the Gcode file, please save all the Gcode files in root directory of the memory card.



Resume from outage

During printing, if there is an accident power loss, the print will stop immediately. But after power comes back, customers could “Resume print”, machine will home first and continuing on the unfinished object.



Note:

- ① “Resume from outage” is valid only for offline printing.
- ② In slicing software (i.e. Cura), it is required to place the model at the rear of the platform. Because during “RESUME”, machine will home first and could touch/interfere with the unfinished object if the model was placed in the front area.
- ③ In order to get smooth surface, use tweezers to carefully remove the excessive filament at nozzle before continuing print upon the last point.
- ④ Do not move the model after power off otherwise resume will be invalid.
- ⑤ This function is developed based on Cura. We could not guarantee this function compatible with other slicing software.
- ⑥ Due to the differences of models, filaments, temperature, extrusion settings, etc...we could not always guarantee a perfect surface finish at the point of “RESUME”, especially for small objects.

Maintenance

It is necessary to perform routine maintenance to the 3D printer to achieve consistent and quality results.

Some maintenance suggestions are shown as below:

1. Clean the nozzle with a needle under preheating conditions. If the filament residual in the nozzle could not be cleared 100%, please replace the nozzle.
2. Regularly add lubricating oil to smooth rods, linear bearings, lead screws, brass nuts, etc. By doing so, it can minimize the wear-out failure of those moving parts.
3. Regularly clean the filament residuals and dirt on the nozzle, platform, guide rail, motor, fan, etc.
4. Pay attention to the wear conditions of the D-shape wheels. They could be used for long time, but please replace the D-shape wheels if they have been wore-out.
5. After finishing a print, clean the print platform to ensure the adhesion of the bottom layer of the model for next print.
6. Check the belts regularly and tighten them if necessary.

1. Motor shaking or abnormal sound

- ① The corresponding limit switch could not be triggered when home. Check the wirings, and inspect any obstacles by manually moving the corresponding axis.
- ② The motor cable are not connected properly, check each connection and then inspect the cable routing for any faults.
- ③ The motor is damaged.

2. File not printing or memory card failure

- ① Remove the memory card and insert into PC. Open the GCode files using text editor (eg. Notepad), and inspect if GCode is readable or not. If files contains of multiple "ÿÿÿ" symbol, then file has been corrupted. Try reformatting the memory card to FAT32 format and reloading the GCode file.
- ② Memory card is not readable, ensure file name does not contain special characters or change memory card.
- ③ Display screen freeze, reboot the machine and try again.
- ④ The memory card is damaged.

3. The print head warms up too slowly and the temperature fluctuates greatly

- ① The print head is too close to the printing platform, and the cold air from the cooling fan is blown back to the heated aluminum block, which causes heat loss and temperature fluctuation. It is recommended to rise the print head before the print head heats up to ensure that there is a distance of more than 3cm between the print head and the platform.

4. No extrusion or extrusion motor knocking

- ① Filament tangled on spool.
- ② Teflon tubing has been tangled, squeezed or bent.
- ③ Ensure that the nozzle temperature has been set to match the filament.
- ④ Nozzle clogged please try to replace it or clean it with a needle.
- ⑤ Not enough cooling for the hotend.
- ⑥ Print speed is too fast, please lower the print speed.
- ⑦ The friction between extruder and filament is not enough, please increase the extrusion force by rotating the adjustable nut of the extruder.

5. Filament leaking

- ① Nozzle, heating block or throat tube is not tightened properly, try to fix/change it after cooling.

6. Layer shifting

- ① Print head moves too fast, slow down the print speed.
- ② Check X/Y belt and the driving wheel and ensure they are properly installed.
- ③ The model is warping, please refer to item 7 below.
- ④ Drive current is too low, please contact our tech-support.

7. No sticking to the bed and the model is warping

- ① Check if the printing platform is properly leveled.
- ② Set "Initial Layer Height" to 0.2 and "Initial Layer Line Width" to 150 in Cura to improve initial layer adhesion.
- ③ Print too fast at the bottom layer speed, reduce it to ~20mm/s

8. Print head move abnormal

- ① Check if choosing the right machine type in slicing software.
- ② Check if any plugins in the slicing software.

9. Print stopped halfway

- ① Use print offline mode (memory card) instead of print online via data cable.
- ② Check if the GCode file is corrupted.
- ③ Delete plugins in the GCode file.
- ④ Check if the memory card is damaged.
- ⑤ Power supply voltage is not stable, please print again when the voltage is stable.

10. The print model is difficult to be removed from the platform

- ① Preheat the bottom of the model by hot air and then shovel it with a spatula.
- ② The nozzle is too close to the platform, so the first layer of the model is very sticky with the platform. Make sure the distance between the nozzle and the platform to about the thickness of the paper($\sim 0.1-0.2\text{mm}$) when leveling, or increase the distance appropriately according to the viscosity of the material.
- ③ Reducing the width of the initial layer line.
- ④ The print speed of the initial layer is too slow, which will cause excessive stickiness between the model and the printing platform. Please increase the print speed of the initial layer.

11. The model looks normal but some parts cannot be printed

- ① Special parts such as overhanging part need to be added with support, etc., and need to be adjusted according to the specific model. It is recommended to preview the print layer to see if it meets the requirements.

12. Drawing is more serious

- ① The retraction distance is insufficient. It should be set larger when slicing.
- ② The retraction speed is too slow. It should be set a bit faster when slicing.
- ③ The printing temperature is too high, which causes the fluidity and viscosity of the filament to be strong. The printing temperature need to be set lowered a little.

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